



# alpha laboratories

supplying quality to science



# Introduction and Contents



Welcome to your new and expanded Alpha Laboratories Catalogue.

We hope you will find all the technical information you need, but please do contact your local distributor or Alpha if you need any further information.

For over 40 years Alpha Laboratories' range has continued to develop with the requirements of our customers. In this catalogue are many new products as well as old favourites.

**alpha+**™ manual pipettes are autoclavable, have a 3 year warranty, are calibrated according to ISO8655 and priced to suit every laboratory.

The Alpha tip range has many revisions. It now includes more tips manufactured from our popular co-polymer. This reduces liquid retention to only 0.5% without the use of reaction-toxic silicone.

**SpeciSafe**® sample transport mailing packs provide the required protection of biohazardous samples in the post, for compliance to UN3373 regulations.

The **Pastette**® and extended **Clarit-E**® ranges mean that you can select a product to suit your application rather than changing the way that you work.

*Thank you for your continued custom and we look forward to being of assistance in the near future.*

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## Pastette®

### The Global Name for Transfer Pipettes

Available in over 50 designs, Pastettes are flexible, unbreakable, transfer or Pasteur pipettes and are ideal for a multitude of tasks.

From quick and easy liquid transfers to precise control for small sample handling, Pastettes can be used for sampling from bottles or delivering to micro-cuvettes.

Whatever your application, a choice of known drop volumes and specific tip designs allow you to select the Pastette that exactly meets your needs. Availability in handy non-sterile bulk packs and sterile packs of 10, 20 or single wrapped pipettes offers complete flexibility.

Plus don't forget our custom design service if you ever need a bespoke format pipette.

Visit [www.pasteur-pipette.com](http://www.pasteur-pipette.com) for further information



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## Selecting the Right Pastette® for Your Needs

Pastettes are available in over 50 designs and can be used for many specialist as well as general purpose requirements.

They provide a safe and convenient alternative to glass pipettes, available in numerous shapes and sizes. Alpha Laboratories offers Pastettes in sterile, as well as simply packaged non-sterile pack formats.

Sterile inner packs of 20, 10 or single wrap Pastettes combine the security of aseptic transfers with the economy of use that suits your needs.

Pastettes are also available for custom requirements. Call Alpha Laboratories to discuss your specific design and packaging solutions.

For more information visit [www.pasteur-pipette.com](http://www.pasteur-pipette.com)

### Graduated Pastettes

For measured transfers of 1, 2, 3 or 5ml in fractions of 0.25ml to 1.0ml.

Ideal for preparation of fixatives and stains and other measured transfers.



### Jumbo Pastettes

For the transfer of larger volumes.

At 300mm long, the Jumbo reaches places other Pastettes can't go.



### Fine Tip Pastettes

For careful control and small volume transfers. Ideal for supernatant removal, slide preparation and gel loading.



### Non-Graduated Pastettes

Can be used for a wide variety of tasks. Specialist designs provide Pastettes for many applications from tissue culture to mononuclear separation and blood testing.



## ■ Length

Unless otherwise indicated Pastette illustrations are shown as 'life-size'. From the shortest (36mm) to the longest (300mm), you can select the length that allows you to reach into deep vessels or delicately draw fluid from small Wells.

## ■ Bulb Draw

Each Pastette in the range is shown with the maximum liquid volume that can be drawn in a single transfer allowing you to select the one most suitable to your typical volume transfers.

## ■ Tip Design

Alternative tip sizes allow you to choose smaller drop sizes in a variety of tip lengths, where work with small volumes and delicate applications is critical. Wide bore designs are ideal for viscous fluids or whole cells reducing shearing to a minimum.

## ■ Drop Volume

All Pastettes are accurate to  $\pm 10\%$  of the stated specification allowing you to deliver  $\mu\text{l}$  drops of known volumes.

## ■ Graduations

Graduated Pastettes allow you to quickly and easily deliver measured volumes.

**Just call for technical assistance to see which design best meets your needs:**

**+44 23 8048 7209 or email [export@alphalabs.co.uk](mailto:export@alphalabs.co.uk)**

## Sterile



Sterility Assurance Level (SAL) of  $10^{-4}$  is ensured by irradiating this product according to ANSI/AAMI/ISO 11137-2006 Guidelines. See pack logos for available sterile pack types.

## Sterile "Singles"



Individual sterile Pastette® in a sealed plastic, or peel pouch.

## Sterile "10s"



10 sterile Pastettes® in a sealed plastic bag, or peel pouch.

## Sterile "20s"



20 sterile Pastettes® in a sealed plastic bag.



# Liquid Handling - Pastette®

**Best Choice for:**

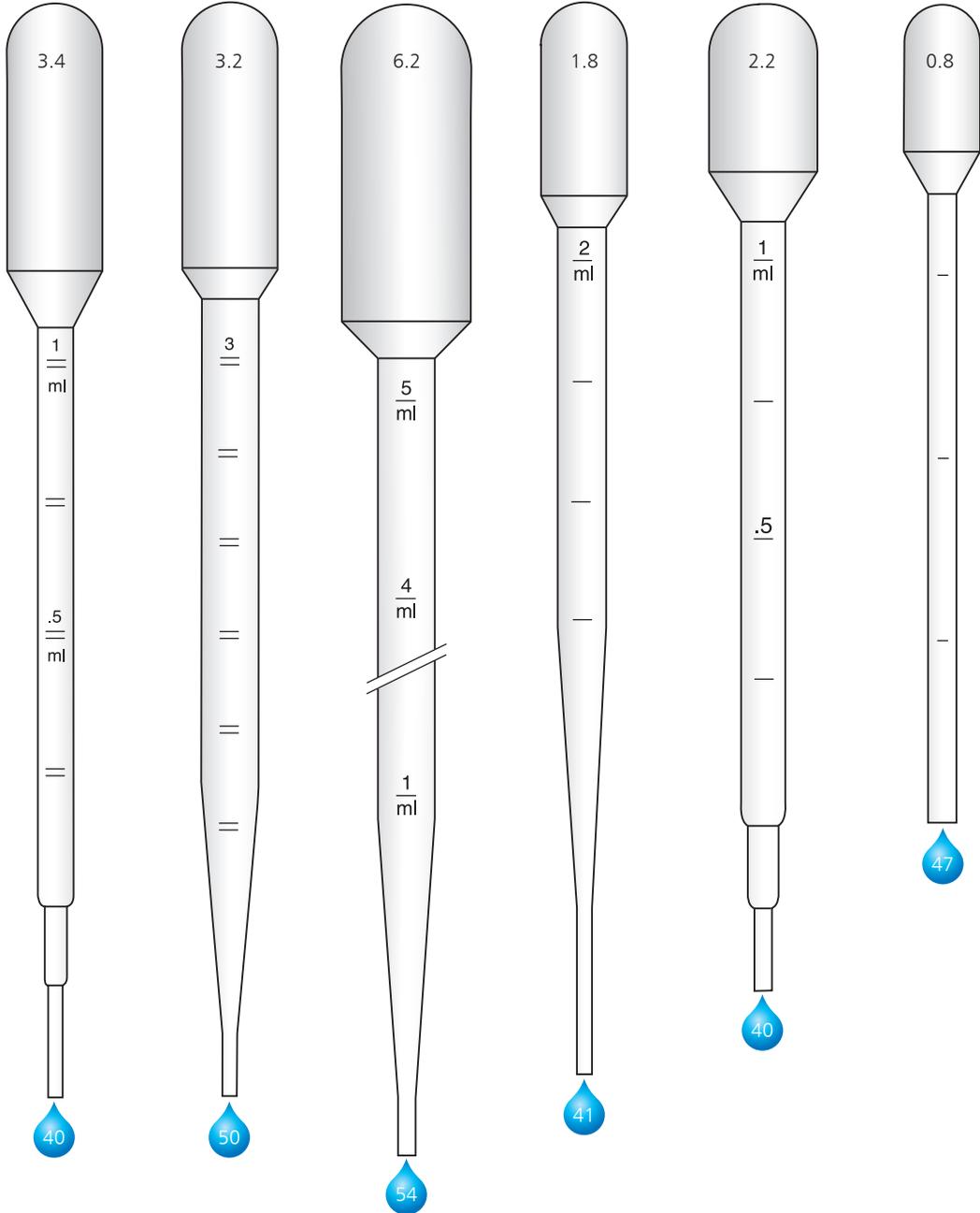
- Measured transfer
  - Aliquoting
  - Drop by drop work
- Graduated Medi to fit blood bag tubing  
 Small Bulb Graduated for pH meter maintenance  
 Graduated Mini for slide tests and micro-volumes

	1ml Graduated	3ml Graduated	5ml Graduated	Graduated Medi	Small Bulb Graduated	Graduated Mini
Length (mm)	155	155	217	152	140	116
Drops per ml	25	20	19	24	25	21
Graduations at	0.25ml	0.50ml	1.00ml	0.50ml	0.25ml	0.1ml

Bulb Draw (ml)



- Flexible Standing Orders
- Responsive Bulb Sensitivity
- Known Drop Volumes



All drawings depict actual size except 5ml graduated

Drop Volume (µl)

Non Sterile	Cat No	LW4040	LW4111	LW4728	LW4274	LW4212	LW4282	Non-sterile
Pack Size		500	500	250	500	500	500	
Sterile 1's								
Cat No	LW4005	LW4112					LW4284	1's
Pack Size	500	500					500	
Sterile 10's								
Cat No	LW4006	LW4113						10's
Pack Size / Price ex. VAT	500	500						
Sterile 20's								
Cat No	LW4010	LW4114	LW4729	LW4277	LW4215	LW4283		20's
Pack Size	500	500	240	500	500	500		

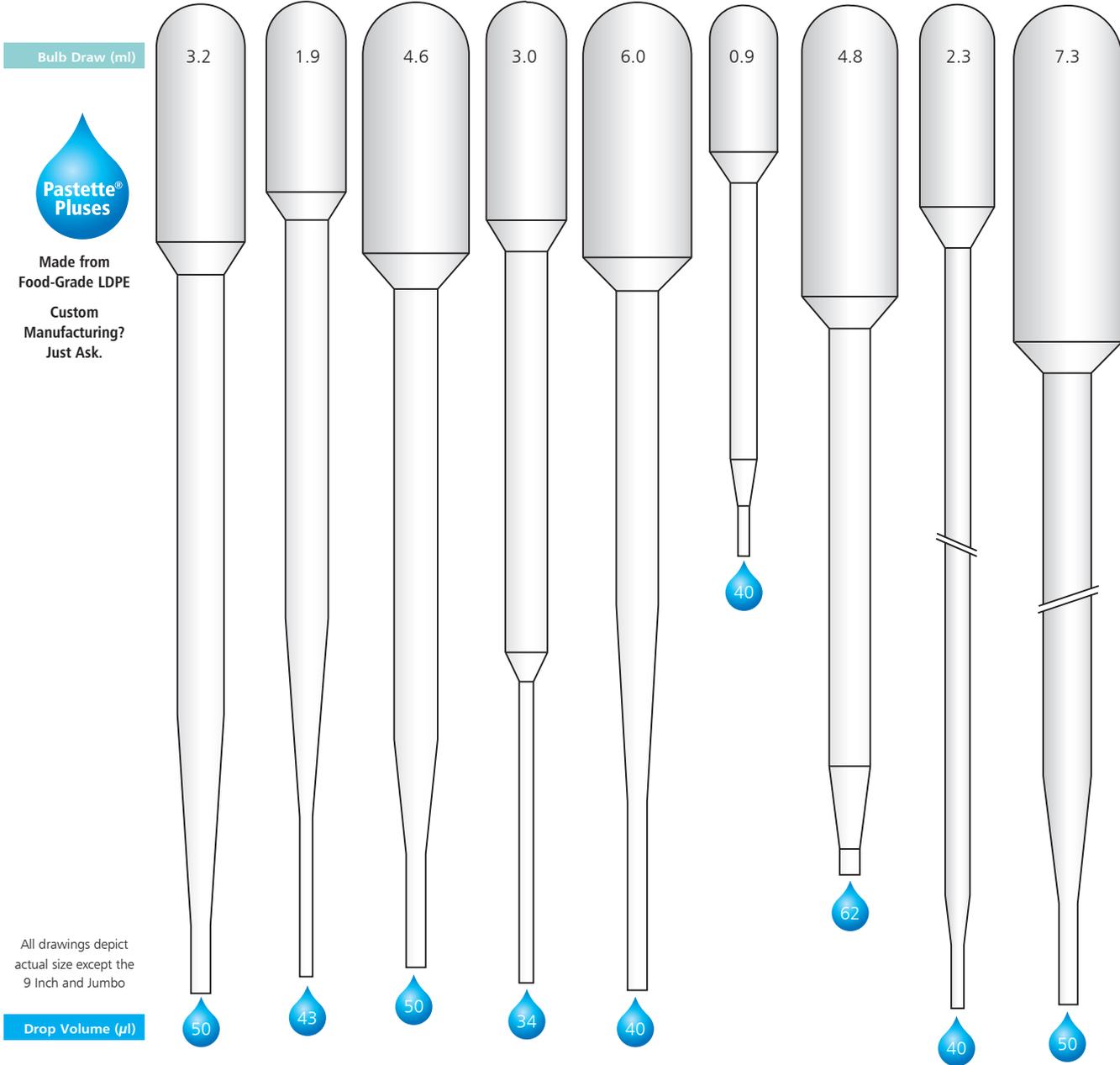
Pastette® Graduated

**Best Choice**  
for:

- Transferring supernatant
- Adding reagents/chemicals
- Extracting samples

Cell Saver for tissue culture  
Maxi for larger volumes  
Jumbo and 9 inch for deep vessels

	Standard	Medi	Maxi	Long Reach	Mayday	3 Inch	Cell Saver	9 Inch	Jumbo
Length (mm)	156	154	152	155	156	87	137	225	300
Drops per ml	20	23	20	29	25	25	16	25	20



Non Sterile										
Cat No	LW4000	LW4336	LW4204	LW4694	LW4141	LW4273	LW4691	LW4050	LW4263	Non-sterile
Pack Size	500	500	400	500	400	500	250	400	100	
Sterile 1's										
Cat No	LW4003						LW4692	LW4051	LW4264	1's
Pack Size	500						250	400	100	
Sterile 10's										
Cat No				LW4695						10's
Pack Size				500						
Sterile 20's										
Cat No	LW4002		LW4206					LW4053	LW4266	20's
Pack Size	500		400					400	100	

# Liquid Handling - Pastette®

**Best Choice**  
for:

- Precise control
- Careful aspiration
- For test strips

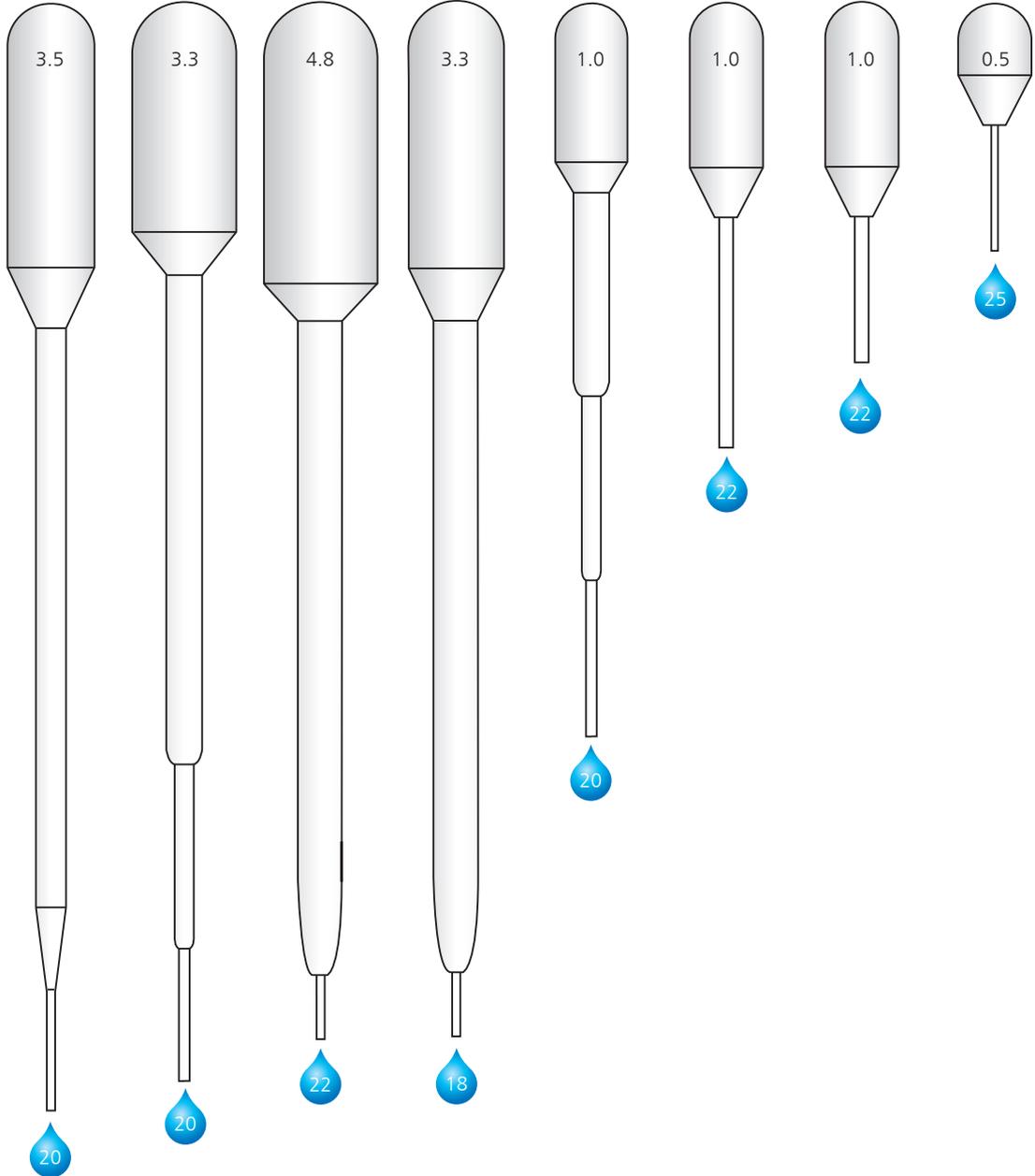
Fine Tip Mini for colony picking  
 Fine Tip Maxi for sample removal  
 Extended Fine Tip for small drop work

	Extended Fine Tip Standard	Extended Fine Tip	Fine Tip Maxi	Fine Tip	Extended Fine Tip Mini	Extended Fine Tip Ultra Micro	Fine Tip Ultra Micro	Small Bulb Fine Tip
Length (mm)	157	153	147	147	104	63	51	36
Drops per ml	50	50	45	55	50	45	45	40

Bulb Draw (ml)



Fine Tips for Great Control  
 No Sharps, No Hazards



All drawings depict actual size

Drop Volume (µl)

Non Sterile									Non-sterile
Cat No	LW4635	LW4233	LW4234	LW4060	LW4231	LW4244	LW4243	LW4697	
Pack Size	500	250	400	500	400	500	500	500	
Sterile 1's									1's
Cat No	LW4636	LW4238	LW4235	LW4061	LW4239				
Pack Size	400	400	400	400	400				
Sterile 20's									20's
Cat No	LW4638	LW4232	LW4236	LW4070	LW4237				
Pack Size	500	500	400	500	500				

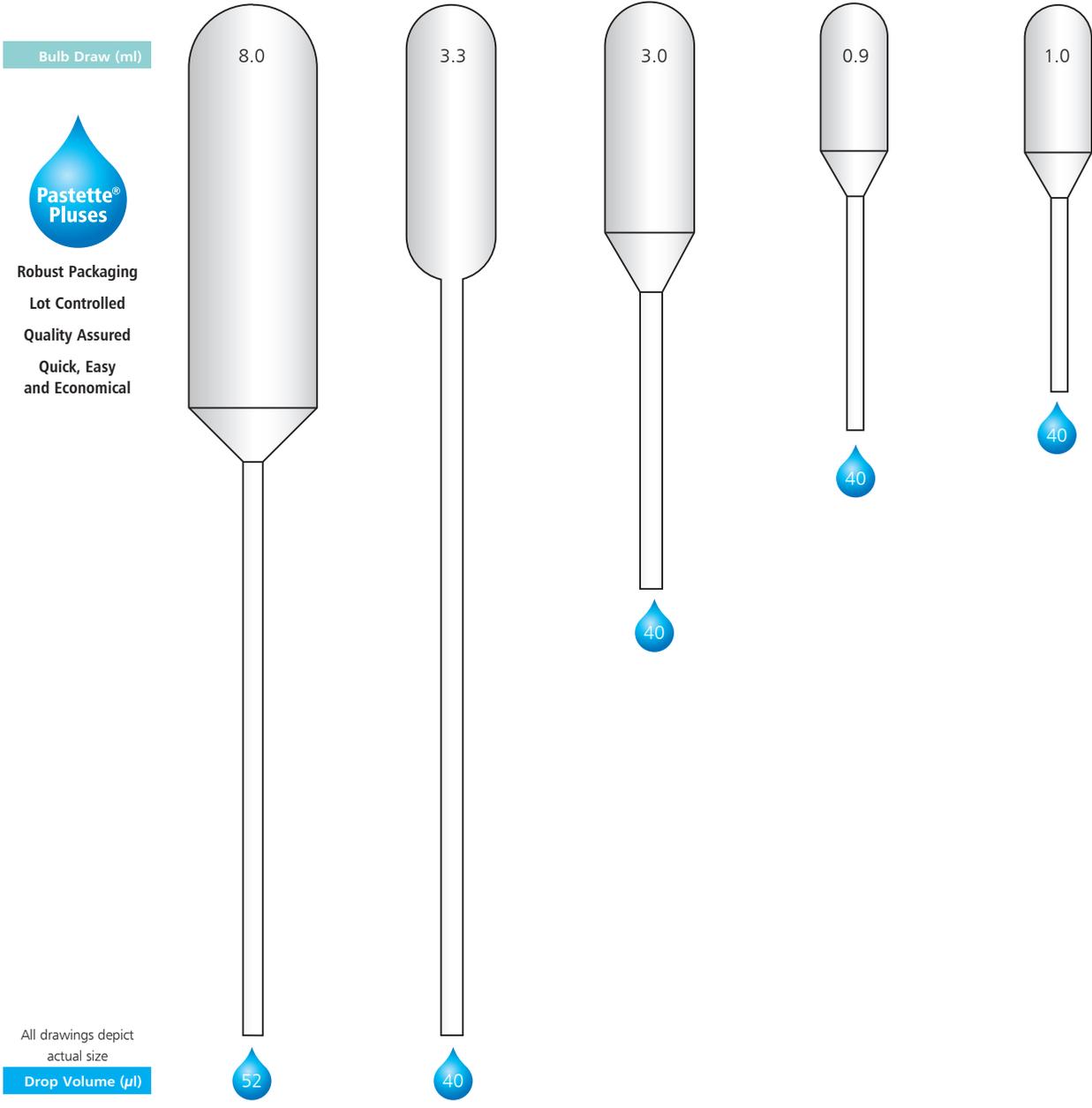
Pastette® Fine Tip



- Small diameter tubes
- Cuvettes and AA cups
- Can be heat sealed for transport

Ultra Micro for small volumes  
 Standard Micro for reaction chambers  
 Large Bulb Micro for transfer of larger volumes

	Large Bulb Micro	Standard Micro	Short Stem Micro	Ultra Micro	Short Stem Ultra Micro
Length (mm)	155	155	88	64	58
Drops per ml	19	25	25	25	25



Robust Packaging  
 Lot Controlled  
 Quality Assured  
 Quick, Easy  
 and Economical

All drawings depict actual size

Non Sterile						Non-sterile
Cat No	LW4252	LW4020	LW4242	LW4241	LW8241	
Pack Size	250	500	500	500	500	
Sterile 1's						1's
Cat No		LW4021				
Pack Size		500				
Sterile 20's						20's
Cat No	LW4255	LW4023				
Pack Size	200	500				

# Liquid Handling - Pastette®

## Dual-Bulb Pastettes®

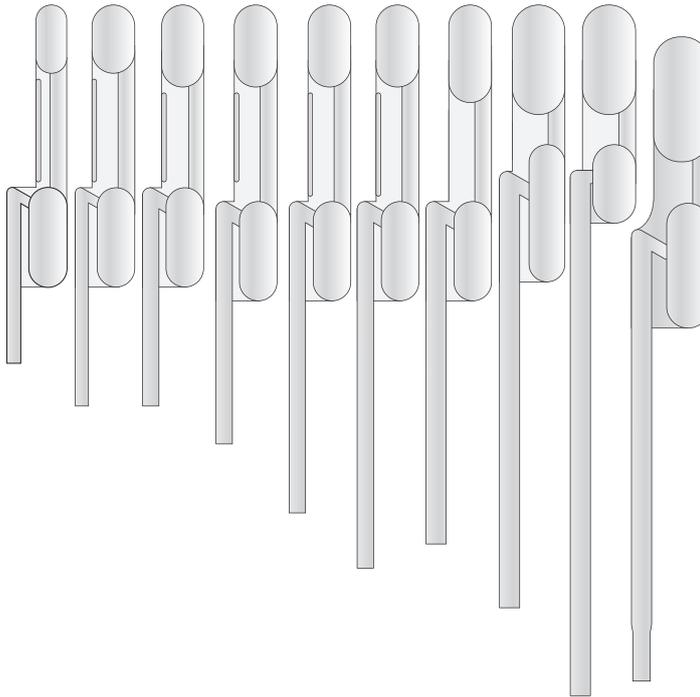
- Fast measured transfers
- Easy to use
- Innovative

Foolproof simplicity for exact volume delivery.

Dual-Bulb Pastettes are designed to dispense a known volume of liquid. Simply squeeze the upper bulb to fill, and squeeze again to dispense the exact volume.

A quick and easy alternative to pipettes and tips, Dual-Bulb Pastettes are available in a range of convenient volumes from 20-300µl.\* Useful for many applications, and particularly for untrained hands as part of a self-test diagnostic kit.

<b>Bulb Draw (µl)</b>	60	110	-	146	146	146	180	-	324	385
<b>Length (mm)</b>	53	59	59	65	75	83	80	89	102	96
<b>Dispense Volume (µl)</b>	20	40	50	60	80	100	150	200	250	300



All drawings shown at 90% scale

Non Sterile										
<b>Cat. No.</b>	LW4730	LW4740	LW4745	LW4750	LW4760	LW4770	LW4780	LW4785	LW4790	LW4795
<b>Pack Size</b>	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000
Now also available in convenient smaller packs of 500 for certain volumes										
<b>Cat. No.</b>	LW4730-500	LW4740-500	LW4745-500	LW4750-500		LW4770-500	LW4780-500		LW4790-500	
<b>Pack Size</b>	500	500	500	500		500	500		500	

\* If you require a volume which does not appear in our standard listing, we would be happy to discuss producing your required volume as a custom Pastette.

## Paddle Pastettes®

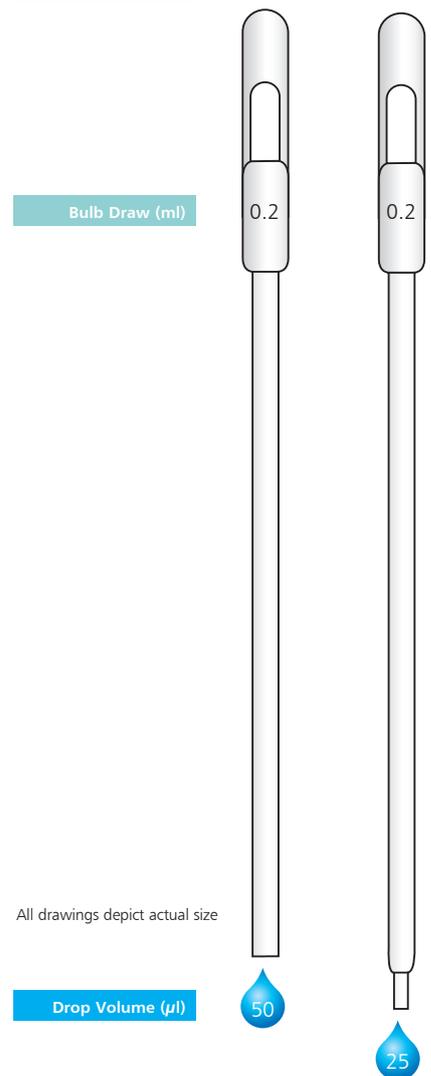
- Two functions, one Pastette®
- Choice of 2 drop sizes

Useful for dispensing and mixing applications and popular with diagnostic kit manufacturers.

Paddle Pastettes® allow you to dispense reagents onto slides followed by mixing using the opposite end of the Pastette®.

Ideal for latex agglutination, pregnancy tests and blood grouping cards.

	Paddle	Ultra Fine Tip Paddle
<b>Length (mm)</b>	124	131
<b>Drops per ml</b>	20	40



All drawings depict actual size

Non Sterile		
<b>Cat. No.</b>	LW4295	LW4292

## Aspirator Pastettes®

	Short Aspirator	Long Aspirator
Length (mm)	152	280

- Manufactured from polyethylene
- Safer than glass
- Flexible and soft to protect cell cultures
- Can be used with any laboratory Pipet-Aid

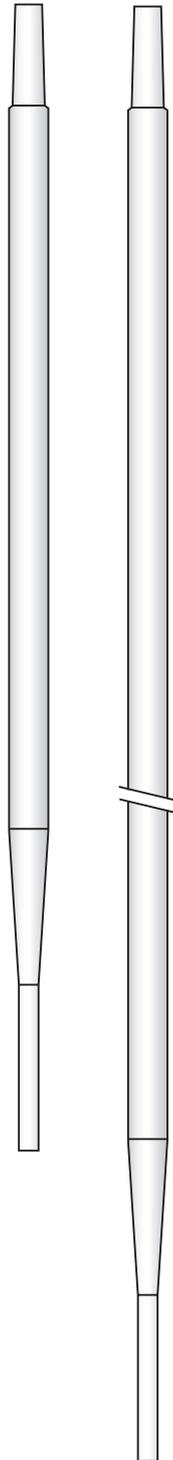
The unbreakable, safe alternative to aspirating with glass pipettes on vacuum lines.

Convenient, pre-sterilised and prevents injury risk from traditional glass pipettes.

Best choice for delicate and valuable cell lines.

A 'must have' for work with infectious and hazardous materials.

Convenient sterile inner packs of 25.



All drawings depict actual size except Long Aspirator

	Sterile	
Cat No	LW4806	LW4811
Pack Size	500	500

## Everything online at our dedicated Pastette® website



www.pasteur-pipette.com

- History
- Range
- Applications
- Custom Design
- Features and Quality
- Case Studies
- Contact

## Custom Pastette® options

With more than 20 years' experience in bespoke pipette design, Alpha Laboratories is your best source for a customised specification.

Alpha's experience has also been employed by kit manufacturers and other users for the creation of additional personalised designs specific to their requirements.

Many of the current Pastette designs were the result of requests from users: adding graduations, lengthening/shortening stems or narrowing/widening the tip. However, despite this vast range, sometimes you still can't find the exact tool that would work perfectly for your particular application. If you need a bespoke product, a particular pipette to go into a kit or specific packaging, Alpha Laboratories can help.

### Customisation Options

#### Option 1

##### White Box with Standard Product

- Standard plain white box with a white case label
- Supplied in generic packaging for customisation with your own label

#### Option 2

##### Customised Label with Standard Product

- Standard white box with customised label to fit your company's product
- Benefit from an economical customisation alternative

#### Option 3

##### Customised Product Colour and Packaging with White Box

- Compliment your business strategy by manufacturing your product with specific colour and/or bagged in specific quantities

#### Option 4

##### Customised Packaging and Product

- Get total customisation of your product design, label and package with your corporate logo and colours, bagged in required format

### Ask the Experts

Alpha Laboratories is highly qualified to provide a range of customised solutions, tailored to your specific requirements. If you'd like to talk to us about a custom design, please contact us or complete the online enquiry form at: [www.pasteur-pipette.com/custom](http://www.pasteur-pipette.com/custom)

PLEASE NOTE MINIMUM ORDER QUANTITIES APPLY FOR ALL CUSTOM OPTIONS



Option 1



Option 2



Option 3



Option 4

## Solutions for Routine and Specialist Liquid Handling

**alpha+** pipettes, our extensive range of autoclavable pipettes, have a 3 year warranty and offer accurate liquid handling at a price to suit every laboratory

Some liquid handling tasks require specialist equipment. Our line of dispensers covers a wide range of applications - from Pipet-Aids and bottle top dispensers for large volume delivery to high precision instruments for nanolitre injections.

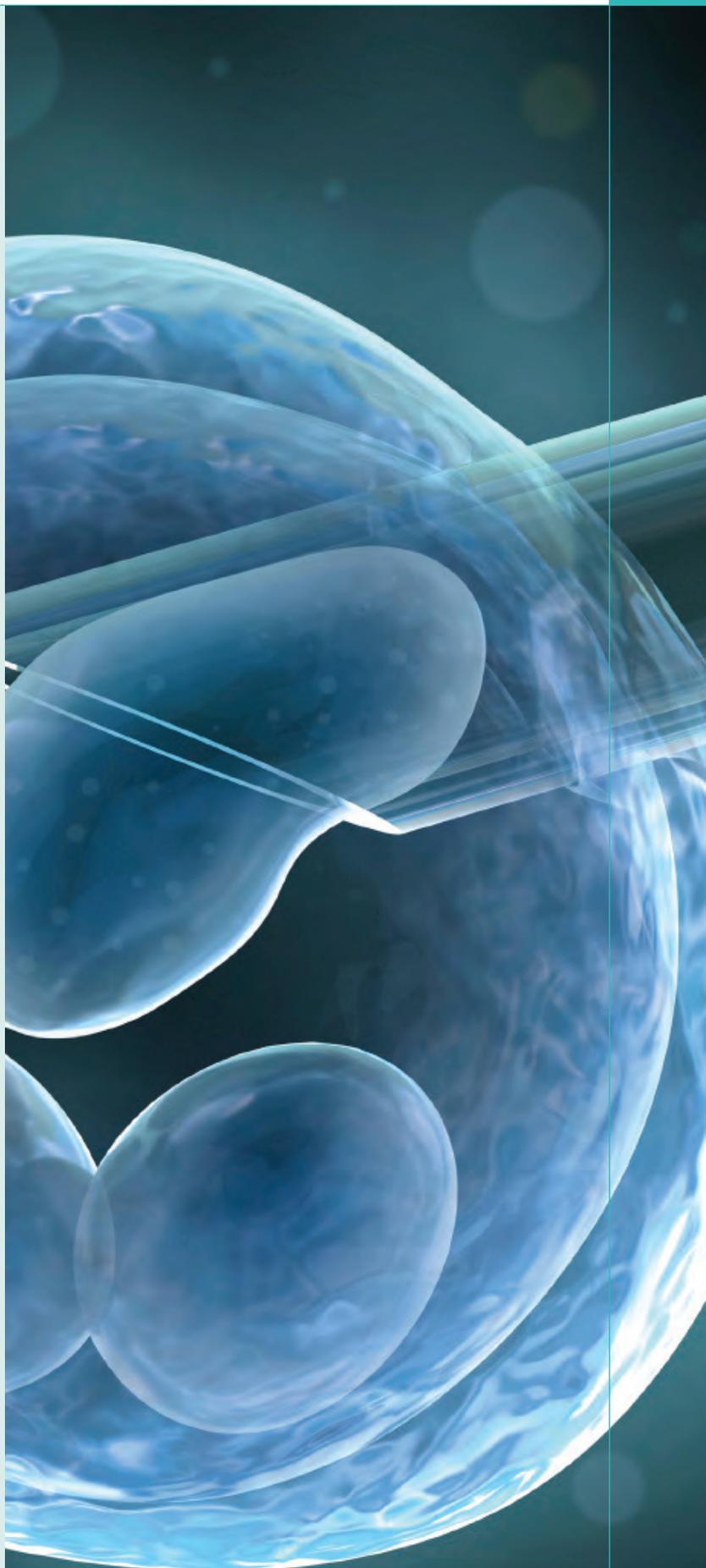
For difficult to handle solutions including viscous, volatile or high density liquids our positive displacement repeating dispensers ensure easy and precise delivery. They also make light work of all repeat volume delivery tasks, whatever your liquid.

For delicate work Drummond microdispensers ensure reproducible accuracy.

### What's New?

- Nanoject III Autoinjector

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# alpha+

### Accuracy, Performance and Value

The range of **alpha+** pipettes provides variable and fixed volume single channel, plus 8 and 12-channel models.

These lightweight, easy-to-use pipettes are robust and reliable even in the most challenging environments. They provide unsurpassed accuracy at a very affordable price for true quality and economy within an attractive modern design.

Each pipette is supplied with a full calibration report according to ISO8655:2002 part 6. The pipettes are fully autoclavable without dismantling and carry a three year warranty.



### Performance

- Calibration report according to ISO8655:2002 part 6 enclosed with every pipette
- Ensures high accuracy and precision
- Body grip made from TPE (Thermo Plastic Elastomer) insulates the pipette to minimise transfer of body heat to maintain high accuracy even in continuous use

### Ergonomics

- Ergonomic design for minimum fatigue of hands and fingers
- Light weight
- Soft-grip body
- Soft plunger movement for reduced thumb stress
- Finger hook for support

### Easy to Use

- Easy model volume identification through colour coding
- Click-stop digital system for volume setting

### Robust and Reliable

- Autoclavable
- UV resistant
- 3 year warranty

### Need Tips?

See the full range in our  
Tips section pages 31-50

## alpha+ Pipettes Ordering Information

Catalogue Number	Volume Range	Increments $\mu$ l	Error of Trueness % at Nominal Volume	Imprecision % at Nominal Volume
Variable Volume Single Channel <b>alpha+</b> Pipettes				
APV000025	0.1-2.5 $\mu$ l	0.01	2.5	1.6
APV000100	0.5-10 $\mu$ l	0.1	1	0.6
APV000200	2-20 $\mu$ l	0.1	0.9	0.4
APV000500	5-50 $\mu$ l	0.5	0.6	0.3
APV001000	10-100 $\mu$ l	0.5	0.8	0.2
APV002000	20-200 $\mu$ l	1	0.6	0.2
APV010000	100-1000 $\mu$ l	5	0.6	0.2
APV050000	500-5000 $\mu$ l	50	0.6	0.2
APV100000	1000-10000 $\mu$ l	100	0.6	0.2
Fixed Volume Single Channel <b>alpha+</b> Pipettes				
APF000025	2.5 $\mu$ l	N/A	2.0	1.6
APF000050	5 $\mu$ l	N/A	1.3	1.2
APF000100	10 $\mu$ l	N/A	1.2	0.8
APF000200	20 $\mu$ l	N/A	1.0	0.5
APF000250	25 $\mu$ l	N/A	1.0	0.3
APF000400	40 $\mu$ l	N/A	1.0	0.3
APF000500	50 $\mu$ l	N/A	0.7	0.3
APF001000	100 $\mu$ l	N/A	0.6	0.2
APF002000	200 $\mu$ l	N/A	0.6	0.2
APF002500	250 $\mu$ l	N/A	0.6	0.2
APF005000	500 $\mu$ l	N/A	0.6	0.2
APF010000	1ml	N/A	0.6	0.2
APF020000	2ml	N/A	0.3	0.2
APF050000	5ml	N/A	0.3	0.2
APF100000	10ml	N/A	0.6	0.2

Other volumes may be available subject to minimum order requirements. Please enquire.

## alpha+ Multichannel Pipettes

Designed with the same care and attention to detail as the single channel **alpha+** range, the multi-channel range comes with a choice of 8- or 12- tip 360° swivel head. This range is also autoclavable and carries a 3 year warranty.

Catalogue Number	Volume Range	Increments $\mu$ l	Error of Trueness % at Nominal Volume	Imprecision % at Nominal Volume
8-Channel <b>alpha+</b> Pipettes				
AP80010	0.5-10 $\mu$ l	0.1	1.5	1.5
AP80050	5-50 $\mu$ l	0.5	1.0	0.7
AP80100	10-100 $\mu$ l	1.0	1.0	0.5
AP80200	20-200 $\mu$ l	1.0	0.7	0.25
AP80300	30-300 $\mu$ l	1.0	0.8	0.25
12-Channel <b>alpha+</b> Pipettes				
AP120010	0.5-10 $\mu$ l	0.1	1.5	1.5
AP120050	5-50 $\mu$ l	0.5	1.0	0.7
AP120100	10-100 $\mu$ l	1.0	1.0	0.5
AP120200	20-200 $\mu$ l	1.0	0.7	0.25
AP120300	30-300 $\mu$ l	1.0	0.8	0.25

For the latest tip fit information visit [www.alphalabs.co.uk/alphaplustipfit](http://www.alphalabs.co.uk/alphaplustipfit)



## alpha+ Pipette Stands

Cat. No.	Description
APS-4	Stand to hold 4 x <b>alpha+</b> Pipettes
APS-6	Stand to hold 6 x <b>alpha+</b> Pipettes





## Drummond Pipet-Aids

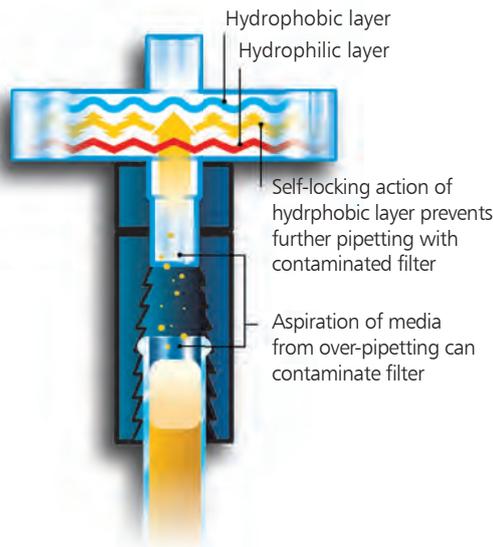
Drummond branded products have a hallmark of quality and reliability, trusted by customers around the world. The Drummond Pipet-Aid family has been setting the industry standard for electronic pipette controllers since the 1970's, when the launch of the original Pipet-Aid eliminated the need for mouth pipetting.

New designs have been developed to respond to the changing needs of the market and the latest models have a host of innovative features, providing great performance and ergonomics. With the widest choice of options available, you can select the Pipet-Aid to best suit your needs.

All Pipet-Aids have a one year warranty and can be used to fill glass or plastic serological pipettes from 1-100ml. See pages 19-20 for our range of serological pipettes

### Self-Locking Filter

Drummond Pipet-Aids incorporate a self-locking, dual layer filter comprising a hydrophobic 0.8µm membrane and a hydrophilic 0.8µm membrane which provide a barrier to particles as small as 0.1µm. These unique filters serve to both protect the Pipet-Aid® and guard against cross-contamination. When liquid is drawn into the filter by over aspiration, the hydrophobic layer prevents fluid from entering the handle whilst the wet hydrophilic layer restricts airflow, effectively 'locking' the pipette and preventing further use until the filter is replaced. Although with conventional, single layer, hydrophobic filters, the pipette controller is protected from over-pipetting (as aspirated liquid will not pass through the filter), subsequent use can blow out contaminants from the filter when dispensing.



(4-000-050)

The tissue culture nosepiece applies to Pipet-Aid® XL, XP and Original



## Portable Pipet-Aid® XP<sup>2</sup>

The Pipet-Aid XP<sup>2</sup> raises the industry standards for pipetting comfort, convenience and control.

- Ergonomic design - the lightest Pipet-Aid ever with smooth-touch operating button
- Uninterrupted, extended operation - can be charged while in use to eliminate downtime
- Ultra quiet, precision pump - excellent control when aspirating or dispensing
- LED shows when mains power is connected

The unit has 3 speeds for aspiration and dispense modes and is powered by a 3.6V Ni-MH rechargeable battery. It is supplied with a charger, spare filters and a handy detachable stand for resting the Pipet-Aid when not in use.



Portable Pipet-Aid® XP <sup>2</sup>		
Catalogue Number	Description	Pack Size
4-000-501-UK	Pipet-Aid® Portable XP <sup>2</sup> , 220V UK Charger	Each
4-000-501-1	Pipet-Aid® Portable XP <sup>2</sup> , 220V EURO Charger	Each

Accessories and Consumables for Pipet-Aid® XP <sup>2</sup>		
Catalogue Number	Description	Pack Size
4-000-051	Self-locking Filters	5
4-000-052	Self-locking Filters	50
4-000-036	Pipet-Aid® XP <sup>2</sup> / XL replacement battery	Each

## Portable Pipet-Aid® XL

The Pipet-Aid XL has a special ergonomic design to make it easier to operate in awkward situations e.g. under the sash of a safety cabinet or fume hood.

- Longer, lightweight handle allows users to adopt a lower arm position when pipetting. This minimises head, neck and upper arm fatigue helping to avoid repetitive strain injuries
- Adjustable sliding hand rest gives maximum comfort and stability
- Quiet and efficient pump
- Uninterrupted, extended operation - can be charged while in use to eliminate downtime

The unit has 3 speeds for aspiration and dispense modes and is powered by a 3.6V rechargeable battery. It can be used to fill glass and plastic pipettes from 1-100ml. It is supplied with a UK charger, spare filters, holster wall bracket and a handy detachable stand for resting the Pipet-Aid when not in use.



### Portable Pipet-Aid® XL

Catalogue Number	Description	Pack Size
4-000-205-E	Pipet-Aid® XL with UK Charger	Each
4-000-205	Pipet-Aid® XL - Euro Charger 220V	Each

### Accessories and Consumables for Pipet-Aid® XL

Catalogue Number	Description	Pack Size
4-000-051	Self-locking Filters	5
4-000-052	Self-locking Filters	50
4-000-079	EZ Grip Black Nosepiece	Each
4-000-079-Z	EZ Grip Coloured Nosepieces Assorted	6
4-000-036	Pipet-Aid® XP <sup>2</sup> / XL replacement battery	Each



## Portable Pipet-Aid® XP

This tried and trusted model has high durability so it is the perfect workhorse for high throughput areas.

- Compact and lightweight
- Handy holster for wall-mounting
- Optional coloured nosepieces for easy identification

The unit has 3 speeds for aspiration and dispense and is powered by a 9V Ni-MH rechargeable battery. It can be used to fill glass and plastic pipettes from 1-100ml. It is supplied with a charger, spare filters, holster wall bracket and a detachable stand for resting the Pipet-Aid when not in use.



### Accessories and Consumables for Pipet-Aid® XP

Catalogue Number	Description	Pack Size
4-000-051	Self-locking Filters	5
4-000-052	Self-locking Filters	50
4-000-079	EZ Grip Black Nosepiece	Each
4-000-079-Z	EZ Grip Coloured Nosepieces Assorted	6
4-000-035	Pipet-Aid XP Replacement Battery	Each

### Portable Pipet-Aid® XP

Catalogue Number	Description	Pack Size
4-131-201-E	Pipet-Aid® XP with 220V UK Charger	Each
4-000-202-E	Pipet-Aid® XP with gravity drain 220V UK Charger	Each
4-000-201	Pipet-Aid® XP with 220V EURO Charger	Each

## Original Pipet-Aid®

This is the first and original Pipet-Aid model and is fully mains operated (without battery). Unlike portable models, a separate hand piece with no electrical components allows for effective autoclaving, eliminating bacterial and viral contamination.

- Extra level of decontamination when handling biohazardous samples
- Available in 3 versions:
  1. with plain nosepiece
  2. with filtered (tissue culture) nosepiece
  3. with dual pump filtration (biohazardous filters present on vacuum and pressure lines)
- The unit has a variable speed for aspiration and dispensing
- Cordless portable version also available

Original Pipet-Aid® and Accessories		
Catalogue Number	Description	Pack Size
4-131-220-E	Original Pipet-Aid Plain with UK charger	Each
4-000-220	Original Pipet-Aid Plain with Euro charger	Each
4-131-220-TC-E	Original Pipet-Aid with TC Nosepiece	Each
4-000-221-E	Original Pipet-Aid with Dual Pump Filtration	Each
4-131-200-E	Original Pipet-Aid Portable with UK charger	Each
4-000-051	Self-locking Filters	5
4-000-052	Self-locking Filters	50



## Pipet-Aid® Hood Mate

For those who prefer a hard-wired installation, particularly in a workstation, the Pipet-Aid Hoodmate is the perfect solution. The Pipet-Aid is linked to a wall-mounted pump and housing via a long, coiled cord and when not in use, it sits in a convenient holster on the front of the unit.

Always at hand – won't walk away

- Never needs recharging
- Auto-off feature activates after 3 minutes of no use
- 9 aspirate & dispense speed settings
- Space-saving
- Made from UV-resistant materials

Pipet-Aid® Hood Mate		
Catalogue Number	Description	Pack Size
4-000-303	Pipet-Aid Hoodmate 220V with UK Charger	Each
4-000-302	Pipet-Aid Hoodmate 220V with EURO Charger	Each
4-000-051	Self-locking Filters	5
4-000-052	Self-locking Filters	50
4-000-079	EZ Grip Black Nosepiece	Each
4-000-079-Z	EZ Grip Coloured Nosepieces Assorted	6
4-000-081-E	UK Power Supply for Pipet-Aid Hoodmate	Each





## Serological Pipettes

### Sterilin Plugged Pipettes, Sterile, Individually Wrapped in Paper Peel Packaging

- Printed with product code/lot number and expiry date
- Paper backing allows for easier access
- Paper backing maintains shape for easy disposal of pipette within wrapper following use
- Gamma irradiated to ensure sterility
- Certified non-pyrogenic with an endotoxin level of below 0.25EU/ml
- Batch specific certificate supplied in each carton
- Lot number for complete traceability
- Accuracy of  $\pm 1\%$  for nominal volume
- Clear black printed graduations for maximum clarity
- Descending and ascending graduations to aid pipetting
- Negative graduations for extra capacity
- Colour-coded for ease of identification



#### Sterilin Pipettes, Sterile, Individually Wrapped in Paper Peel Packaging

Catalogue Number	Description	Negative Graduations (ml)	Overall Length (mm)	Sterility	Pack Size
RC1640	1ml sterile pipette individually wrapped	-0.2	279	IRR	10 x 100
RC1650	2ml sterile pipette individually wrapped	-0.3	279	IRR	10 x 100
RC1030	5ml sterile pipette individually wrapped	-2.0	275	IRR	4 x 50
RC1040	10ml sterile pipette individually wrapped	-3.0	333	IRR	10 x 50
RC1050	25ml sterile pipette individually wrapped	-10.0	349	IRR	8 x 25
RC1060	50ml sterile pipette individually wrapped	-5.0	344	IRR	2 x 25

### Sterilin Plugged Pipettes, Bulk Packed

- Bulk packed in convenient shelf packs
- Gamma irradiated to ensure sterility
- Certified non-pyrogenic with an endotoxin level of below 0.25EU/ml
- Batch specific certificate supplied in each carton
- Lot number for complete traceability
- Accuracy of  $\pm 1\%$  for nominal volume
- Clear black printed graduations for maximum clarity
- Descending and ascending graduations to aid pipetting
- Negative graduations for extra capacity
- Colour coded for ease of identification



#### Sterilin Pipettes, Sterile, Bulk Packed

Catalogue Number	Description	Negative Graduations (ml)	Overall Length (mm)	Sterility	Pack Size
RC1021	1ml sterile pipettes bulk packed	-0.2	279	IRR	20 x 50
RC1022	2ml sterile pipettes bulk packed	-0.3	279	IRR	20 x 50
RC1025	10ml sterile pipettes bulk packed	-3.0	333	IRR	20 x 25
RC1023	5ml sterile pipettes without suction adapter	-1.5	275	IRR	8 x 25



## Sterilin Plugged Pipettes, Individually Wrapped in Plastic Film Packaging

- Gamma irradiated to ensure sterility
- Certified non-pyrogenic with an endotoxin level of below 0.25EU/ml
- Batch specific certificate supplied in each carton
- Lot number for complete traceability
- Accuracy of  $\pm 1\%$  for nominal volume
- Clear black printed graduations for maximum clarity
- Descending and ascending graduations to aid pipetting
- Negative graduations for extra capacity
- Colour-coded for ease of identification



### Sterilin Pipettes, Sterile, Individually Wrapped in Plastic Film Packaging

Catalogue Number	Description	Negative Graduations (ml)	Overall Length (mm)	Sterility	Pack Size
RC1061	1ml sterile pipette individually wrapped	-0.2	279	IRR	10 x 100
RC1062	2ml sterile pipette individually wrapped	-0.3	279	IRR	10 x 100
RC1064	5ml sterile pipette individually wrapped	-2.0	298	IRR	4 x 50
RC1065	10ml sterile pipette individually wrapped	-3.0	333	IRR	10 x 50
RC1066	25ml sterile pipette individually wrapped	-10.0	349	IRR	8 x 25
RC1067	50ml sterile pipette individually wrapped	-5.0	344	IRR	2 x 25
RC1068	5ml sterile pipette without suction adapter	-1.5	275	IRR	4 x 50



## Alpha Labmax Universal Bottle-Top Dispensers



Normal dispensing mode



Safety lock feature – cannula turns 180°

### for fast and convenient dispensing



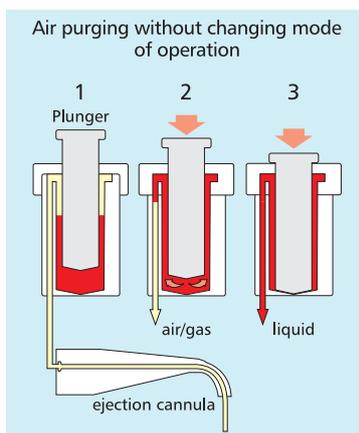
Alpha **Labmax Universal** is a new generation of bottle top dispensers offering fast and trouble-free reagent handling. Constructed from tough, chemical-resistant materials, they can be used with most laboratory chemicals\* and are fully autoclavable so you can standardise on one range for all your dispensing needs.

The innovative design incorporates an automatic air-purging system to ensure accurate liquid delivery with minimal wastage. Unlike conventional devices, Labmax Universal does not feed the reagent back into the bottle during air-purging, so no gas bubbles are transferred into the liquid. Instead, the novel flow path ensures that the plunger's downward movement always displaces the air first and passes it out through the dispensing nozzle before delivering the liquid.

Another valuable feature is the anti-drip dispensing nozzle (ejection cannula) which prevents unnecessary loss of media and serves as a safety lock. When not in use, the cannula can be turned through 180 degrees to drain residual liquid into the bottle.

All Labmax Universal models are supplied with a range of adapters to fit most screw cap bottles.

\* Not suitable for use with solutions containing hydrofluoric acid, solids, or substances catalysed by platinum or iridium alloys



Part	Material
Ejection Cannula	FEP
Seal	PTFE
Valve Head	ETFE
Cylinder	PTFE
Plunger	Borosilicate Glass
Valve Spring	Platinum-Iridium
Valve Ball	Aluminium Oxide
Valve Seal	Borosilicate Glass

Catalogue Number	Description	Increment ml	Accuracy ml	Pack Size
LW0801	0.25-2.5ml LabMax Universal Bottle-top Dispenser	0.05ml	±0.012ml	Each
LW0802	0.5-5ml LabMax Universal Bottle-top Dispenser	0.1ml	±0.030ml	Each
LW0803	1-10ml LabMax Universal Bottle-top Dispenser	0.2ml	±0.060ml	Each
LW0804	2.5-25ml LabMax Universal Bottle-top Dispenser	0.5ml	±0.150ml	Each
LW0805	5-50ml LabMax Universal Bottle-top Dispenser	1.0ml	±0.300ml	Each
LW0806	10-100ml LabMax Universal Bottle-top Dispenser	2.0ml	±0.600ml	Each



## Positive Displacement Microdispensers

### Adjustable Digital Microdispensers

The Drummond range of Digital Microdispensers provides accurate, adjustable volume dispensing.

The direct digital set and read out for fractional volume makes these precision-engineered dispensers easy to use. Using stainless steel plungers (with teflon tips on models 25 $\mu$ l and upwards) and borosilicate, colour-coded glass capillaries (polypropylene bores for 1000 $\mu$ l model) at nominal volumes, the Digital Microdispensers deliver an accuracy of  $\pm 1\%$ .

A positive lock prevents accidental volume changes. Microdispensers are supplied with the appropriate size capillaries, spare O-ring and teflon tips.

The 1000  $\mu$ l model can also be teamed with a Repeat Kit for continuous pipetting, or dispensing manifolds for use with 96 and 384 Well plates.



For replacement glass capillary tubes and plastic tips please see the following page.

For replacement parts please see page 24.

#### Adjustable Digital Microdispensers

Catalogue Number	Description	Range $\mu$ l	Increments $\mu$ l
3-000-510	10 $\mu$ l Drummond digital Microdispenser	2.0-10.0	0.01
3-000-525	25 $\mu$ l Drummond digital Microdispenser	5.0-25.0	0.1
3-000-550	50 $\mu$ l Drummond digital Microdispenser	10-50	0.1
3-000-575	100 $\mu$ l Drummond digital Microdispenser	20-100	0.1
3-000-590	1000 $\mu$ l Drummond digital Microdispenser	100-1000	1.0
3-000-091	Repeat Kit for use with 1000 $\mu$ l models		
3-000-093	Straight, 8 Place Manifold for 96-Well Plate*		
3-000-102	Straight, 16 Place Manifold for 384-Well Plate*		

\*Other configurations available, please enquire

### Adjustable Dialamatic Microdispensers



Dialamatic Microdispensers offer excellent precision micro-volume delivery. The stainless steel plungers and borosilicate glass capillaries have a volumetric accuracy of  $\pm 1\%$  at full volume. The adjustable plunger is engraved with a fractional delivery scale in pre-marked increments for direct reading and setting. All microdispensers are supplied with colour-coded capillaries, essential maintenance tools and spare parts.



#### Adjustable Dialamatic Microdispensers

Catalogue Number	Description	Range $\mu$ l	Increments $\mu$ l
3-000-210	10 $\mu$ l Drummond Dialamatic Microdispenser	2.0-10.0	1.0
3-000-225	25 $\mu$ l Drummond Dialamatic Microdispenser	5.0-25.0	1.0
3-000-250	50 $\mu$ l Drummond Dialamatic Microdispenser	10-50	2.0
3-000-275	100 $\mu$ l Drummond Dialamatic Microdispenser	20-100	10.0



For replacement glass capillary tubes and plastic tips please see the following page. For replacement parts please see page 24.



## Positive Displacement Microdispensers

### Fixed Volume Microdispensers

The range of fixed volume microdispensers provides reliable, accurate delivery of single volumes using stainless steel plungers and borosilicate glass capillaries, or polypropylene bores for the 1000µl model. Volumetric accuracy of these pipettes at full volume is ±1%. A pack of colour-coded capillaries or plastic tips of the appropriate volume together with essential maintenance tools accompany each dispenser.

The 5µl model can be adapted to dispense 1, 2, 3 or 4µl using the set of 4 colour-coded spacers provided with the pipette. The required spacer is fitted over the plunger by removing the fingerpad. Similarly the 200µl model can be adapted to dispense 100µl.



The 1000µl model can also be teamed with a Repeat Kit for continuous pipetting or dispensing manifolds for use with 96 and 384 Well plates.

#### Fixed Volume Microdispensers

Catalogue Number	Description
3-000-105	1/2/3/4/5µl Drummond Fixed Volume Microdispenser
3-000-310	10µl Drummond Fixed Volume Microdispenser
3-000-320	20µl Drummond Fixed Volume Microdispenser
3-000-325	25µl Drummond Fixed Volume Microdispenser
3-000-350	50µl Drummond Fixed Volume Microdispenser
3-000-375	100µl Drummond Fixed Volume Microdispenser
3-000-385	100/200µl Drummond Fixed Volume Microdispenser
3-000-388	250µl Drummond Fixed Volume Microdispenser
3-000-390	1000µl Drummond Fixed Volume Microdispenser
3-000-091	Repeat Kit for use with 1000µl models
3-000-093	Straight, 8 Place Manifold for 96-Well Plate*
3-000-102	Straight, 16 Place Manifold for 384-Well Plate*

\*Other configurations available, please enquire



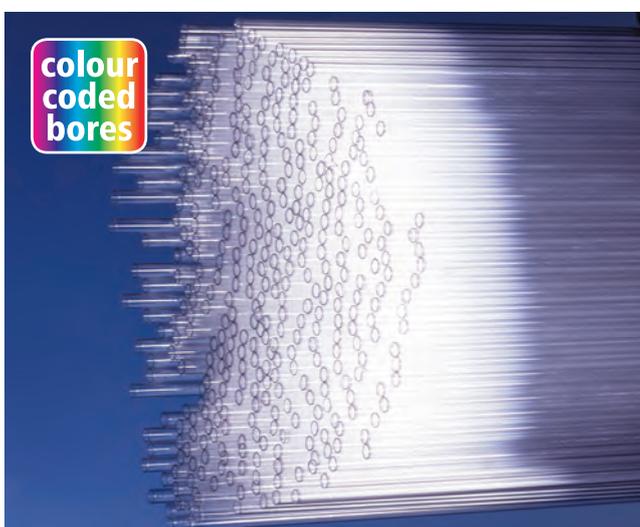
Spacer set included with 3-000-105



3-000-105 set to dispense 1µl with largest spacer

For further details of the Repeat Kit and Dispensing Manifolds, please see the previous page.

### Microdispenser Capillaries/Bores



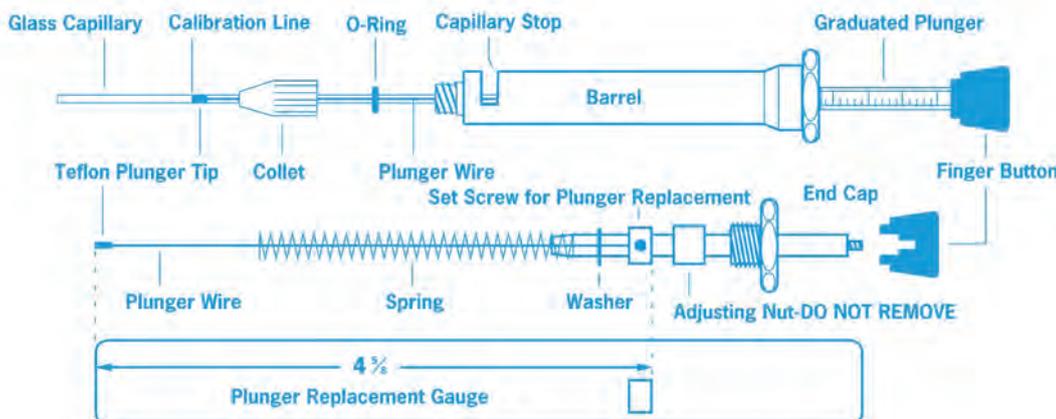
Drummond Microdispenser capillaries are suitable for use with all Microdispensers. They are manufactured from chemical resistant, borosilicate glass with the exception of the 1000µl bores which are manufactured from tough polypropylene. All microdispenser capillaries are colour coded to help you easily identify the correct volume bore.

#### Microdispenser Capillaries

Catalogue Number	Description	Pack Size
3-000-105-G	1-5µl Glass Microdispenser Bores, White	100
3-000-210-G	10µl Glass Microdispenser Bores, Orange	100
3-000-320-G	20µl Glass Microdispenser Bores, Black	100
3-000-225-G	25µl Glass Microdispenser Bores, Double White	100
3-000-250-G	50µl Glass Microdispenser Bores, Green	100
3-000-275-G	100/200µl Glass Microdispenser Bores, Blue	100
3-000-388-G	250µl Glass Microdispenser Bores, Black	100
3-000-590-G	1000µl Plastic Tips	100



## Replacement Parts for Microdispensers



Positive displacement microdispensers are easily serviced with no need for re-calibration and are provided with a supply of capillaries, an Allen key, O-ring, replacement Teflon tips, holding block and reshaping tool where appropriate.

Additional components to keep your microdispensers in excellent working order are available in tailored parts, kits or bulk packs.

Microdispensers with a maximum volume of up to 20µl do not require teflon plunger tips and the 1000µl Microdispensers do not utilise O-rings or plunger wires.

Tailored Parts Kits		
Catalogue Number	Description	Compatibility
3-000-005-K	<b>5µl Microdispenser Parts Kit:</b> 2 Plungers, 2 O-Rings, 1 Coil Spring, 1 Spring Guide	3-000-105
3-000-010-K	<b>2-10µl Microdispenser Parts Kit:</b> 2 Plungers, 2 O-Rings, 1 Coil Spring, 1 Spring Guide	3-000-510 3-000-210
3-000-310-K	<b>10µl Microdispenser Parts Kit:</b> 2 Plungers, 2 O-Rings, 1 Coil Spring, 1 Spring Guide	3-000-310
3-000-320-K	<b>20µl Microdispenser Parts Kit:</b> 2 Plungers, 2 O-Rings, 1 Coil Spring, 1 Spring Guide	3-000-320
3-000-025-K	<b>5-25µl Microdispenser Parts Kit:</b> 1 Plungers, 2 O-Rings, 1 Collet, 1 Coil Spring, 3 Teflon Tips, 1 Spring Guide	3-000-525 3-000-225
3-000-325-K	<b>25µl Microdispenser Parts Kit:</b> 1 Plungers, 2 O-Rings, 1 Collet, 1 Coil Spring, 3 Teflon Tips, 1 Spring Guide	3-000-325
3-000-050-K	<b>10-50µl Microdispenser Parts Kit:</b> 1 Plungers, 2 O-Rings, 1 Collet, 1 Coil Spring, 3 Teflon Tips, 1 Spring Guide	3-000-550 3-000-250
3-000-350-K	<b>50µl Microdispenser Parts Kit:</b> 1 Plungers, 2 O-Rings, 1 Collet, 1 Coil Spring, 3 Teflon Tips, 1 Spring Guide	3-000-350
3-000-075-K	<b>20-100µl Microdispenser Parts Kit:</b> 1 Plungers, 2 O-Rings, 1 Collet, 1 Coil Spring, 3 Teflon Tips, 1 Spring Guide	3-000-575
3-000-375-K	<b>100µl Microdispenser Parts Kit:</b> 1 Plungers, 2 O-Rings, 1 Collet, 1 Coil Spring, 3 Teflon Tips, 1 Spring Guide	3-000-275 3-000-375
3-000-385-K	<b>100/200µl Microdispenser Parts Kit:</b> 1 Plungers, 2 O-Rings, 1 Collet, 1 Coil Spring, 3 Teflon Tips, 1 Spring Guide	3-000-385
3-000-388-K	<b>250µl Microdispenser Parts Kit:</b> 1 Plungers, 2 O-Rings, 1 Collet, 1 Coil Spring, 3 Teflon Tips, 1 Spring Guide	3-000-388*

Bulk Parts Kits – Ordered on Request			
Catalogue Number	Description	Quantity	Compatibility
3-000-010-590	Plunger Tips for 1000µl Microdispenser	3	3-000-590, 3-000-390
3-000-0101	Teflon Tips 25µl x 50	50	3-000-525, 3-000-225, 3-000-325
3-000-0102	Teflon Tips 50µl	50	3-000-550, 3-000-250, 3-000-350, 3-000-344*
3-000-0103	Teflon Tips 100µl	50	3-000-575, 3-000-275, 3-000-375, 3-000-385

\*Other configurations available, please enquire



## Gel Sequencing Pipette



The Drummond Gel Sequencing Pipette is a variable volume Microdispenser developed to address the difficult procedure of introducing DNA samples into gel slots. It allows 0.5-3.0µl sample volumes to be efficiently and precisely delivered into narrow slots, utilising tapered polycarbonate tips.

The tips are available in 2 bore diameters: 0.34mm for 0.35mm gel slots and 0.19mm for 0.2mm gel slots. They can be autoclaved for sterile applications and are also replaceable. The pipette is supplied with 6 x 0.34mm tips and are available to order separately.



### Gel Sequencing Pipette

Catalogue Number	Description	Pack Size
3-000-203	Microdispenser Gel Sequencing Pipette	Each
3-000-203-G	Replacement Bores 0.34 mm	10
3-000-203-G-0.2	Replacement Bores 0.19mm	10

## Oocyte Microinjection Pipette



The Drummond Oocyte Microinjection Pipette offers reproducible accuracy when dispensing volumes from 30nl to 10µl. The non-rotating plunger eliminates tip wobble to allow more precise deposition.

Each pipette is supplied with 100 8" glass capillaries for the user to prepare 200 pulled tips.



### Oocyte Microinjection Pipette

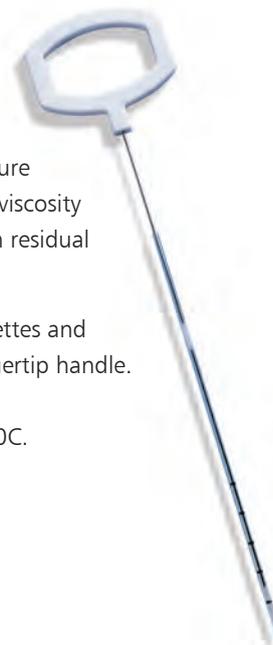
Catalogue Number	Description	Pack Size
3-000-510-X	Oocyte Pipette with 100 x 8" Glass Capillaries	Each
3-000-210-G8	10µl Oocyte Pipette Capillaries, 8"	100
3-000-210-G	10µl Microdispenser Capillaries, 3.5"	100
3-000-000-210-X	Wire Plunger for Oocyte Pipette	Each

## PCR Pipettes



These disposable, positive displacement, glass micropipettes with stainless steel plungers measure true sample volume regardless of viscosity and eliminate contamination from residual aerosols.

Each pack contains 100 micropipettes and 100 plungers plus a re-usable fingertip handle. The glass micropipettes should be decontaminated before use at 240C.



### PCR Pipettes

Catalogue Number	Description	Pack Size
5-000-1001-X	5µl PCR Pipettes	100
5-000-1001-X10	10µl PCR Pipettes	100

## Wiretrol® II



Wiretrol® II positive displacement micropipettes combine a disposable, precision bore, calibrated micropipette with a re-useable, stainless steel plunger and fingertip handle. The calibrated micropipettes are colour-coded and have dual graduations. They are supplied with two plungers, one standard length for complete filling of the bore and a second shorter plunger for non-contact delivery of the sample to prevent contamination. Wiretrol® II are suitable for use with both high and low viscosity liquids.



### Wiretrol® II

Catalogue Number	Description	Colour Code	Pack Size
5-000-2005	Wiretrol II Micropipettes 1 to 5µl	White	250
5-000-2010	Wiretrol II Micropipettes 5 to 10µl	White	250
5-000-2020	Wiretrol II Micropipettes 10 to 20µl	Orange	250
5-000-2050	Wiretrol II Micropipettes 25 to 50µl	Double White	250
5-000-2100	Wiretrol II Micropipettes 50 to 100µl	Green	250
5-000-2200	Wiretrol II Micropipettes 100 to 200µl	Blue	250



## Micro Capillaries

### Microcaps®

These disposable, precision-bore, glass capillary tubes are cut to pre-determined lengths to deliver constant and precise,  $\pm 1\%$  fill volumes. Easy to use, the fluid is drawn into the tube by capillary action and dispensed by a simple squeeze of the bulb.

Each pack of Microcaps® is supplied with one re-useable bulb. Additional bulbs can be purchased separately.

A unique spotting holder is also available for applications such as TLC, which will allow the sample to be dispensed simply by touching the tube to the spotting surface such as silica gel or cellulose.



Microcaps®			
Catalogue Number	Description	Pack Size	
1-000-00025	0.25 $\mu$ l Microcap, 32mm	100	
1-000-0005	0.50 $\mu$ l Microcap, 32mm	100	
1-000-0010	1.00 $\mu$ l Microcap, 32mm	100	
1-000-0010-64	1.00 $\mu$ l Microcap, 64mm	100	
1-000-0020	2.00 $\mu$ l Microcap, 32mm	100	
1-000-0030	3.00 $\mu$ l Microcap, 32mm	100	
1-000-0040	4.00 $\mu$ l Microcap, 32mm	100	
1-000-0050	5.00 $\mu$ l Microcap, 32mm	100	
1-000-0060	6.00 $\mu$ l Microcap, 38mm	100	
1-000-0070	7.00 $\mu$ l Microcap, 45mm	100	
1-000-0080	8.00 $\mu$ l Microcap, 44mm	100	
1-000-0090	9.00 $\mu$ l Microcap, 49mm	100	
1-000-0100	10.00 $\mu$ l Microcap, 41mm	100	
1-000-0150	15.00 $\mu$ l Microcap, 54mm	100	
1-000-0200-32	20.00 $\mu$ l Microcap, 32mm	100	
1-000-0200	20.00 $\mu$ l Microcap, 64mm	100	
1-000-0250	25.00 $\mu$ l Microcap, 65mm	100	
1-000-0300	30.00 $\mu$ l Microcap, 78mm	100	
1-000-0350	35.00 $\mu$ l Microcap, 78mm	100	
1-000-0400	40.00 $\mu$ l Microcap, 52mm	100	
1-000-0447	44.70 $\mu$ l Microcap, 52mm	100	
1-000-0500	50.00 $\mu$ l Microcap, 100mm	100	
1-000-0750	75.00 $\mu$ l Microcap, 101mm	100	
1-000-0800	80.00 $\mu$ l Microcap, 93mm	100	
1-000-1000-100	100.00 $\mu$ l Microcap, 100mm	100	
1-000-1000	100.00 $\mu$ l Microcap, 116mm	100	
1-000-2000	200.00 $\mu$ l Microcap, 127mm	100	



1-000-9000



1-000-9005

### Microcaps® Accessories

Catalogue Number	Description	Pack Size
1-000-9000	Microcap Bulb Dispenser	Each
1-000-9003	Silicone Tips for Bulb Dispenser assembly	3
1-000-9005	TLC Spotting Holder	Each

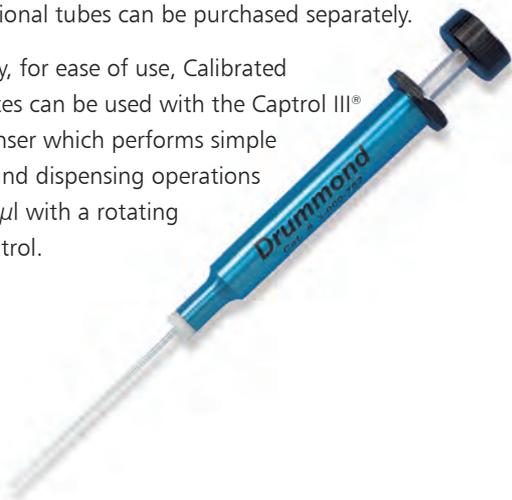
## Calibrated Micropipettes



**DRUMMOND** Scientific Company Calibrated Micropipettes are fire polished, precision glass capillary tubes for accurate micro-volume transfer with a guaranteed accuracy of  $\pm 0.5\%$ . Each pack of Calibrated Micropipettes is supplied with a 15" aspirator tube. Additional tubes can be purchased separately.



Alternatively, for ease of use, Calibrated Micropipettes can be used with the Captrol III® microdispenser which performs simple aspirating and dispensing operations from 1-100µl with a rotating volume control.



### Calibrated Micropipettes

Catalogue Number	Description	Colour Code	Pack Size
2-000-001	1-5µl Calibrated Micropipettes	White	250
2-000-005	5µl Calibrated Micropipettes	White	250
2-000-010	10µl Calibrated Micropipettes	Orange	250
2-000-020	20µl Calibrated Micropipettes	Black	250
2-000-025	25µl Calibrated Micropipettes	Double White	250
2-000-030	30µl Calibrated Micropipettes	Double Black	250
2-000-040	40µl Calibrated Micropipettes	Yellow	250
2-000-044	44.7µl Calibrated Micropipettes	Purple/Blue	250
2-000-044-H	44.7µl Heparinised Micropipettes	Purple/Green	250
2-000-050	50µl Calibrated Micropipettes	Green	250
2-000-075	75µl Calibrated Micropipettes	Purple	250
2-000-100	100µl Calibrated Micropipettes	Blue	250
2-000-100-E	100µl Calibrated Micropipettes with EDTA	Blue	250
2-000-200	200µl Calibrated Micropipettes	Red	250
2-000-201	100-200µl Calibrated Micropipettes	Red	250
2-000-000	15" Aspirator Tube Assembly	-	Each
3-000-752	Captrol III® Microdispenser	-	Each

## Hematocrit Tubes



**DRUMMOND** Scientific Company Hematocrit tubes are capillary tubes designed for both safe blood collection as well as accurate micro-hematocrit determinations. They are available in either plain or heparin-coated versions with a choice of 32mm and 75mm lengths.

The HEMATO-CLAD® Mylar® wrapped Haematocrit Tubes combine the precision of glass with the safety provided by a Mylar® overwrap. The HEMATO-CLAD® capillaries greatly reduce the risk of glass fragment or aerosol contamination to your samples.

The Plasticrit Tubes provide identical capillary action to glass haematocrit tubes. These heparinised polycarbonate capillaries have an outer diameter of 0.8mm and an inner diameter of 0.6mm. Plastic capillaries eliminate the risk of breakage that comes with glass tubes, and also effectively prevent aerosol contamination to your samples.



### Hematocrit Tubes

Catalogue Number	Description	Pack Size
1-000-800-12	Glass Hematocrit Tubes 0.4mm I.D. x 0.8mm thick x 75mm long	12 x 100
1-000-7500-C-5	Glass HEMATO-CLAD® Mylar® wrapped capillaries 75mm long	5 x 200
1-000-7500-HC-5	Glass HEMATO-CLAD® Mylar® wrapped capillaries 75mm long - Heparin-coated	5 x 200
8-000-7520-H-5	Polycarbonate 75mm long Heparin-coated Plasticrit capillaries	5 x 200



## Nanoject™ III Programmable Nanolitre Injector

**NEW  
range**



The Drummond Programmable Nanoject™ III Nanolitre Injector is designed for meticulous injection procedures into cellular models such as oocytes and embryos with delicate membranes.

It offers a number of state-of-the-art features to provide easy setup and operation as well as more accurate injection volumes down to 0.6 nanolitres. Potential applications have been expanded with the introduction of a user-friendly, fully programmable touchscreen located on the control box.

The intuitive touchscreen enables prompted input and execution of tasks. The operational modes enable the user to program the unit to do single manual injections, as well as multiple injection cycle recipes. The program recipes are automatically saved and labelled in sequential order.

Programmability, the lower injection volume capability plus the user's ability to select the injection rate widens the potential range of applications for the Nanoject III.

The Nanoject III does not use any O-rings to secure the micropipette. Instead, a small chuck and a silicon receiver have been incorporated for the glass micropipette. The proven hydraulic technology ensures:

- Lower injection volumes
- User selected injection rate
- Accurate and consistent injection

The Universal Power Source provides adapter plugs to enable the unit to be used in the UK, US, Europe and Australia simply by inserting the proper plug.

The Nanoject™ III Programmable Nanolitre Injector kit includes the following components:

- The control box and power source
- Injector
- Injector head cable
- Vial of 100 3.5" glass capillaries
- Vial of 100 7" glass capillaries
- Backfilling needle
- Universal adapter



### Operating Modes

#### ■ Manual Mode

Enables the user to manually fill and empty the micropipette

#### ■ Inject Mode

Used to do single or multiple manual injections. The user can program an injection volume between 0.6 and 999.9nL, and an injection rate in nL/sec.

#### ■ Program Mode

Enables the user to program multiple injection cycle recipes. The Recipes are automatically saved and labelled in sequential order

#### ■ Set-Up mode

Enables the user to program and store the manual fill and empty rates. The fill and empty speeds are programmed separately to the injection rate.

### Specifications

Power Source	100/240 volt, 50/60 Hz
Total Sample Volume	4.2 µL
Fill / Empty Volume Speed	10 - 200 nL/sec
Injection Volume Range	0.6 - 999.9 nL
Injection Rate	10 - 200 nL/sec
Plunger Travel	23 mm
Glass Micropipette Dimensions	OD 0.045" (1.14 mm), ID 0.021" (0.53 mm)

### Nanoject™ III Programmable Nanolitre Injector

Catalogue Number	Description
3-000-207	Nanoject III Kit 100-240 volts
3-000-032	Foot Switch (remote capability for fill, empty and inject functions)

Supplied with universal adaptor for easy mounting

For accessories, please see page 30.

## Nanoject™ II Autoinjector

The Drummond Nanoject™ II Auto Injector is a high performance instrument, which has been specifically designed to perform ultra-delicate nanolitre injection procedures into cells, including oocytes and embryos. Positive displacement technology and precision microcapillaries together with unique features enhance the ease of use, precise delivery of sample and protection of cells.

The automated microprocessor control delivers volumes from 2.3nl up to 69nl with complete accuracy and precision, even when sample contaminants are present. Cells are protected by the remote controlled, non-rotating plunger that eliminates vibration, minimising cell rupture.

The narrow tips and delivery volume of the Nanoject II enable injections into specimens other than Xenopus. Quieter and smoother than former models, the higher torque motor further reduces tip movement. A novel collet configuration holds the microcapillary more securely reducing air infiltration and oil leakage.



The Nanoject II Kit includes the following components:

- Injector head with lead
- Control box
- Power supply
- Capillary glass: 2 vials of 100 pieces per vial:
  - 3.5" capillaries, Pk100
  - 7.0" capillaries, Pk100
- Replacement O-ring kit with standard collet
- Allen key for replacing wire plunger
- Needle for backfilling capillaries/micropipettes (30 gauge x 2" length)
- Universal Adaptor to enable fitting to most micromanipulators



## Operating Speed

Nanoject™ II has two speed options for each operation, allowing the user to fill and inject at half speed and facilitating the use of smaller microcapillaries.

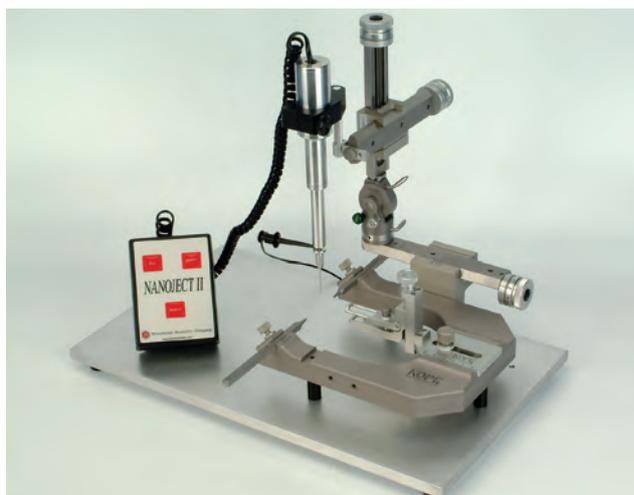
Handling of more viscous samples has also been improved, with no need for tedious recalibration if the viscosity changes.

Operation	Speed Option	Speed (nl/sec)
Fill Speed	Fast	46nL
	Slow	23nL
Injection Speed	Fast	46nL
	Slow	23nL
Empty speed	Fast	230nL
	Slow	92nL

## Recording Nanoject II Injector

The Recording Nanoject II has been specifically developed to improve microvolume injection techniques in the study of connectivity and function of specific brain nuclei. When used in conjunction with an extracellular amplifier, the integrated system enables small volumes to be injected into targeted areas.

- Compatible with most popular stereotaxic instruments
- Supplied with Universal Adapter for easy mounting
- Supplements stereotaxic co-ordinates in guiding the placement of microvolume injections
- Provides direct displacement of neuronal tracer or excitotoxin from the dispenser



### Nanoject II Auto Injector

Catalogue Number	Description
3-000-206A	Nanoject II Auto Injector Kit 220V UK Charger
3-000-205A	Nanoject II Auto Injector Kit 220V EURO Charger
3-000-206-RN	Recording Nanoject II Auto Injector 220V UK
3-000-026	Foot Switch for Nanoject II Auto Injector
3-000-029	Control Box For Nanoject II

Note: Universal adaptor supplied with both models for easy mounting



## Nanoject Accessories

### Replacement Parts

#### Nanoject II Replacement Parts

Catalogue Number	Description
3-000-024-A	Universal Adaptor for Nanoject II*
3-000-030-A	Replacement Injector for Drummond Nanoject II™
3-000-027	Backfilling Needle for Nanoject II Auto Injector
3-000-000-203-X	Wire Plunger for Nanoject II Auto Injector

\* Can be used on stereotaxic equipment using 7.9mm clamps

### Injector Tips

Two lengths of borosilicate glass (N-51-A) capillaries are available for use with Nanoject II –3.5" and 7" and are ready for pulling to the required tolerance. Once the tips are pulled, they must be "backfilled" with oil (or other non-compressible fluid) before attachment to the injector. Silicone or mineral oil is frequently used for this purpose. Backfilling is performed using a 30 gauge x 2" needle and a syringe.

The precise operation of the Nanoject Auto Injectors depends greatly on the use of tips prepared from the specific glass provided. For this reason, it is recommended that only Drummond microcapillaries are used.



#### Injector Tips/Replacement Glass Capillaries

Catalogue Number	O.D (mm)	Length	I.D (mm)	Pack Size
3-000-203-G-X	1.14	3.5"	0.53	100
3-000-203-G-XL	1.14	7"	0.53	100

## Micromanipulators

The injector head should be mounted on a micromanipulator or stereotaxic unit using the Universal adaptor supplied in the kit. The Marzhauser MM33 micromanipulator is a popular, manual model equipped with high precision and stable cross-roller bearings, which work constantly without any noticeable wear even after many years of intensive use.

The MM33 also has a number of ergonomic benefits. The control knobs for all three axes are arranged at the same level so that it can be easily operated without looking. In addition, the operational controls are at the back of the unit, allowing several devices to be easily installed side by side. A support base is available for the MM3 micromanipulator and is also compatible with other brands.

For convenient hands-free operation, an optional foot switch can be used to control the Nanoject II and Nanoject III remotely.



#### Nanoject Accessories

Catalogue Number	Description
3-000-024-R	Micromanipulator Model MM33 Right-Handed Configuration
3-000-024-L	Micromanipulator Model MM33 Left-Handed Configuration
3-000-025-SB	Support Base for Micromanipulator



## Quality Tips and Green Solutions

Using high quality pipette tips ensures you get maximum performance and no interference in your assays.

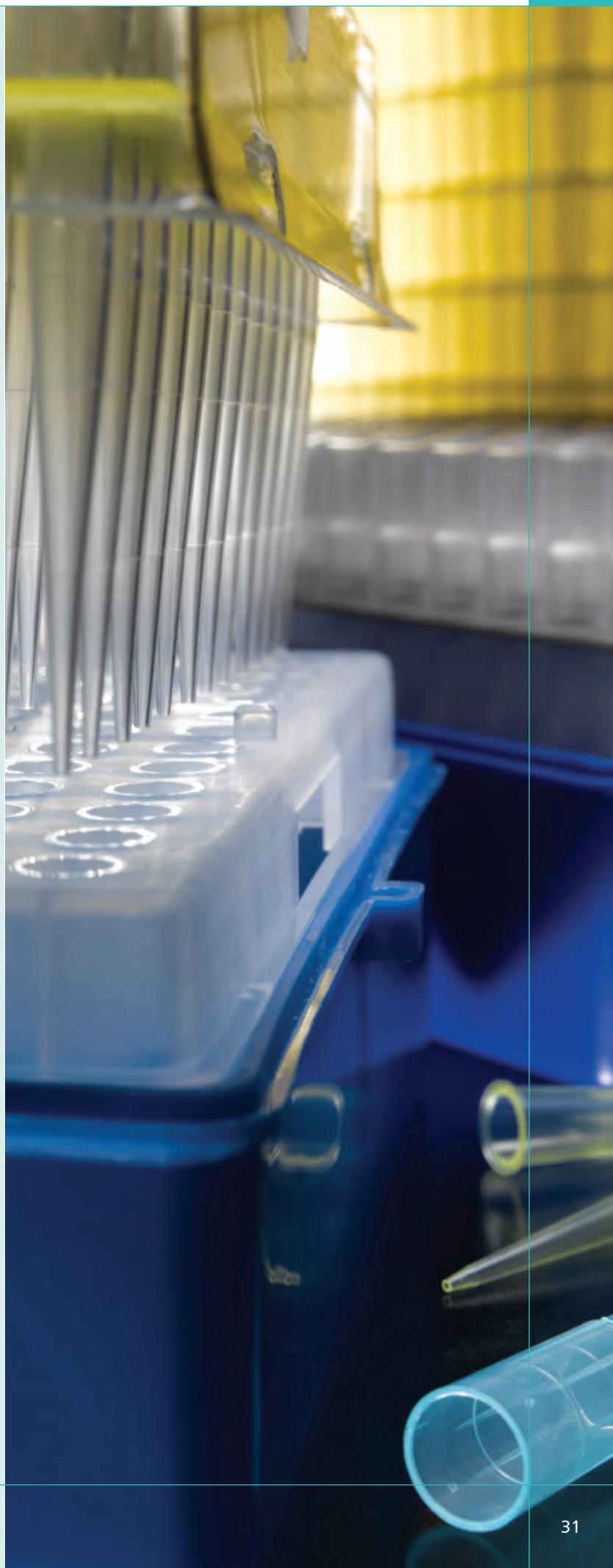
Alpha Laboratories never compromises on quality. Our tips are produced from the highest grade virgin polypropylene using computer-designed stainless steel moulds. The quality control process takes the tips through up to 92 checks from resin to final product to give you the quality reassurance you require.

Our eco-friendly packaging options include the popular Fastrak® tip refill system that gives you faster racking with less packing. For additional green benefits ZAP™ Premier filter tip racks can be re-filled with Fastrak tips.

### What's New?

- Extended range of low retention tips
- Improved racks and packaging for our gel tip range

Contents	Page/s
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Gel Loading and Cutting Tips	45
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## Tips for All Applications

Alpha Laboratories has an extensive range of pipette tips for both routine and specialist applications. As part of an ongoing development programme, we continually improve our range to meet customer demands.

### Alpha Tips

Alpha pipette tips are manufactured from medical grade polypropylene in modern production facilities with stringent quality controls at every stage. Where appropriate, certificates are available for tips to show they are sterile, free from DNase, RNase, endotoxins and DNA. This means that you can protect your samples with the assurance of quality and reliability right to the last tip in the box. Tip fit is tested on all the major pipette brands and details are shown for each tip on the relevant catalogue page or on our web site, [www.alphalabs.co.uk](http://www.alphalabs.co.uk)

### Non-Filter Tips

We have non-filter tips in a variety of formats including loose, racked and our leading eco-friendly tip refill system, *Fastrak*<sup>®</sup>. Sizes cover the complete volume range from 0.1µl to 10ml. For those looking to maximise their budgets, our popular '*Everyday*' tips offer superb quality and value for money. They are made from the same moulds as other tips in our range but without certification.

### Filter Tips

There are 2 Alpha filter tip ranges and both are certified to be free of RNase, DNase, DNA, Pyrogens, ATP and trace metals.

1. **ZAP<sup>™</sup> Premier:** These tips provide ultimate protection of your pipette from both aerosols and fluid contamination. The pores in this filter are very small (~10µm) so that in the event of over-pipetting, the filter blocks the overdrawn fluid but does not absorb it so the sample can be completely dispensed. Tips are autoclavable and sterilised by gamma radiation.
2. **Aerogard<sup>®</sup>:** This comprehensive range has a wide choice of tip formats to fit the majority of pipettes. It provides excellent protection of your samples and instruments from carry-over and cross-contamination. Aerogard<sup>®</sup> tips are perfect for PCR, radioisotope work and handling viruses and serological samples. They are sterilised by gamma radiation. Tips are autoclavable.

Most Aerogard<sup>®</sup> tips in this catalogue are also made with low retention resin which broadens their use to viscous liquids and low volumes.

### Low Retention Tips

These have an ultra-smooth surface that reduces the amount of sample retained by the tip. They are perfect for dispensing viscous solutions, precious samples or very small volumes.

### Gel-Loading Speciality Tips

Gel loading tips offer an ideal solution for gel electrophoresis. Their narrow delivery orifice dispenses the complete sample to the bottom of the Well, resulting in high quality data.

*We have round or flat tips with a choice of widths:*

- Round tips (o.d: 0.57mm) are used for loading gels such as SDS PAGE.
- Flat tips (o.d: 0.17 and 0.37mm) are used for sequencing gels

Some tips are available with additional features such as extended length for access to the bottom of narrow vessels and gel Wells. Others have filters for pipette protection.



ZAP<sup>™</sup> Premier 10µl tips

## Packaging Formats

We offer a comprehensive choice of packaging formats to suit your needs.



### Loose

Loose tips are supplied in durable, resealable, polythene bags for hand racking or use straight from the bag.



### Racked

Tips are pre-racked and are available in **non-sterile** and **sterile** options. Most non-sterile tips are autoclavable – see individual tip pages for details. Sterile tips have been treated with e-beam or gamma radiation and each rack is individually wrapped and sealed.



### Fastrak® Refill System

**Fastrak®** is a unique, eco-friendly system for rapid refilling of racks with minimal packaging and waste. See page 38-39 for details.

## Five Easy Steps to Tip Selection

By following the easy to use tip selection guide and packaging icon key below, you can make sure that the tip you require is available in the style and format that best suits your applications.

**3** Check certification for suitable tips - see the details below

**1** Find the make and model of your pipette

**2** Find the tips which include the volume range of your pipette

**4** Choose the packaging format you require

**5** Select the Alpha catalogue number for your order

Tip Description and Volume Range $\mu$ l		Non-Filter
		0.1-10 $\mu$ l Micro Ultrafine
Coding and Certification (see page 33)		D,E,G,M,R
Pipette Make	Model	
Alpha+	Variable Volume	0.1-2.5, 0.5-10
	Fixed Volume	2.5, 5, 10
	Multi Channel	0.5-10
	Picus®/Picus®N&T Single Channel	0.2-10
	Picus®/Picus®N&T Multi Channel	0.2-10
Sartorius (Biohit)	mLINE®/Proline Plus®	0.5-10
Eppendorf®	Proline® 1	
	Electronic	0.5-10
	Reference	0.1-2.5, 0.5-10
	Research Pro	0.5-10
Gilson	Research	0.1-2.5, 0.5-10
	Research Plus	0.5-10
	Pipetman	P2, 10
	Pipetman Ultra	U2, 10
Rainin®	Pipetman Classic,G,L	0.2-2, 1-10
	EDP3	
	EDP1	
Loose Non-Sterile	Pipet Lite SL	0.1-2, 0.5-10
Racked Non-Sterile		
Racked Sterile		

Icon	Icon Description	Pack Size	Price/Pack	Cat. No.
	Loose Non-Sterile	1000	£16.20	LW1126
	Racked Non-Sterile	12 x 96	£45.80	LW1136
	Racked Sterile	12 x 96	£51.50	

## Tip and Colour Coding for Easy Identification

The tip fit tables are colour-coded to indicate the maximum volume of your chosen tip.

White	10 $\mu$ l tip
Yellow	200 $\mu$ l tip
Blue	1000 $\mu$ l tip
Purple	Other volumes

- D** Tips are lot tested and certified for absence of detectable human DNA
- Ds** Sterile tips only are lot tested and certified for absence of detectable human DNA
- E** Tips are lot tested and certified for absence of detectable endotoxins (pyrogens)
- Es** Sterile tips only are lot tested and certified for absence of detectable endotoxins (pyrogens)
- G** Tips have graduations to visually check volume
- M** Tips are tested and certified for absence of heavy metals
- N** Low Retention Resin
- R** Tips are lot tested and certified for absence of detectable DNase and RNase
- T** Tips have reduced forces for mounting and ejection to avoid strain injuries
- U** Tips have a thin, flexible point which allows the last drop to be dispensed easily

# Pipette Tips

Tip Description and Volume Range $\mu$ l		Non-Filter				
		0.1-10 $\mu$ l Micro Ultrafine	1-200 $\mu$ l 'Everyday' Bevel	1-200 $\mu$ l Bevel	1-200 $\mu$ l Reference Bevel	1-200 $\mu$ l Bevel
Coding and Certification (see page 33)		D,E,G,M,R		D,E,M,R	D,E,G,M,R	Ds,E,G
Pipette Make	Model	Pipette Volume Range $\mu$ l				
alpha+	Variable Volume	0.1-2.5, 0.5-10	2-20, 5-50, 10-100, 20-200	2-20, 5-50, 10-100, 20-200	2-20, 5-50, 10-100, 20-200	2-20, 5-50, 10-100, 20-200
	Fixed Volume	2.5, 5, 10	20, 25, 40, 50, 100, 200	20, 25, 40, 50, 100, 200	20, 25, 40, 50, 100, 200	20, 25, 40, 50, 100, 200
	Multi Channel	0.5-10		5-50, 10-100, 20-200	5-50, 10-100, 20-200	5-50, 10-100, 20-200, 30-300
Sartorius (Biohit)	Picos®/Nxt Single Channel	0.2-10	5-120, 10-300	5-120, 10-300	5-120, 10-300	
	Picos®/Nxt Multi Channel	0.2-10	5-120, 10-300	5-120, 10-300	5-120, 10-300	
	eLINE®	0.2-10	5-120	5-120	5-120	
	Tacta/mLINE/Proline+	0.5-10	20-200	20-200	20-200	2-20, 10-100, 20-200 (5-100 M/C)
	Proline® <sup>1</sup>		2-200	2-200	2-20	2-20, 5-50, 10-100, 20-200 (5-50 M/C)
Eppendorf®	Electronic	0.5-10	5-100, 20-200	5-100, 20-200	5-100, 20-200	
	Reference	0.1-2.5, 0.5-10	2-200	2-200	2-200	2-20, 10-100, 50-200
	Research Pro	0.5-10	5-100	5-100	5-100	
	Research	0.1-2.5, 0.5-10	2-200	2-200	2-200	
	Research Plus	0.5-10	2-20, 10-100, 20-200, (M/C 10-100)	2-20, 10-100, 20-200, (M/C 10-100)	2-20, 10-100, 20-200, (M/C 10-100)	2-20, 10-100, 20-200 (M/C 10-100)
Gilson	Pipetman	P2, 10	P20, 100, 200	P20, 100, 200	P20, 100, 200	
	Pipetman Ultra	U2, 10	U20, 100, 200	U20, 100, 200	U20, 100, 200	
	Pipetman Classic, G, L	0.2-2, 1-10	2-200, 10-200, 20-200, 50-200, (M/C 1-20, 20-200)	2-200, 10-200, 20-200, 50-200, (M/C 1-20, 20-200)	2-200, 10-200, 20-200, 50-200, (M/C 1-20, 20-200)	2-20, 20-100, 50-200
Rainin®	EDP3		2-200	2-200	2-200	
	EDP1		2-200	2-200	2-200	
	Pipet Lite SL	0.1-2, 0.5-10	2-20, 10-100, 20-200	2-20, 10-100, 20-200	2-20, 10-100, 20-200	2-20, 10-100, 20-200
	Classic					
Thermo Electron Finnpipette™	Digital	0.2-10, 0.5-10	2-200	2-200	2-200	
	Focus	0.3-10	1-100	1-100	1-100	
	Biocontrol	0.5-10	5-200	5-200	5-200	
	Novus	1-10	1-100	1-100	1-100	
	Finnpipette 4500					0.5-5, 2-20, 5-50, 10-100, 20-200, (M/C 5-50)
<b>Tip Coding and Certification</b> <b>Key available - see page 33</b>   <b>Fastrak® tip refill available - see pages 38-39</b> <i>All tips illustrated are actual size unless otherwise stated</i>						
		Filter Tips available <b>Fastrak® available</b>		Filter Tips available <b>Fastrak® available</b>	Filter Tips available <b>Fastrak® available</b>	
Loose Non-Sterile	Cat. No.	LW1154	ED0200	LW6361	LW6391	LP200BVY
	Pack Size	1000	1000	1000	1000	1000
Racked Non-Sterile	Cat. No.	LW1126		LW6360		LP200BVRY
	Pack Size	12 x 96		10 x 96		10 x 96
Racked Sterile	Cat. No.	LW1136		LW6365S	LW6393S	LP200BVRYS
	Pack Size	12 x 96		10 x 96	10 x 96	10 x 96

1. Also labelled as Jencons Sealpette and as Genex.

Low Retention				Tip Description and Volume Range $\mu$ l	
0.1-10 $\mu$ l Micro Low Retention	0.5-10 $\mu$ l Extended Low Retention	1-200 $\mu$ l Low Retention	1-300 $\mu$ l Low Retention	Coding and Certification (see page 33)	
Ds,E,N	E,N	E,G,N	E,G,N	Model	Pipette Make
0.1-2.5, 0.5-10	0.1-2.5, 0.5-10	2-20, 5-50, 10-100, 20-200	2-20, 5-50, 10-100, 20-200	Variable Volume	alpha+
2.5, 5, 10	2.5, 5, 10	20, 25, 40, 50, 100, 200	20, 25, 40, 50, 100, 200	Fixed Volume	
0.5-10	0.5-10	5-50, 10-100, 20-200	5-50, 10-100, 20-200, 30-300	Multi Channel	
				Picus®/Picus®Nxt Single Channel	Sartorius (Biohit)
				Picus®/Picus®Nxt Multi Channel	
				eLINE®	
0.1-3,0.5-10	0.1-3,0.5-10	2-20, 10-100, 20-200 (5-100 M/C)	2-20, 10-100, 20-200 (M/C 5-100 30-300)	Tacta/mLINE/Proline+	
0.1-2.5,0.5-10	0.1-2.5,0.5-10	2-20, 5-50, 10-100, 20-200 (5-50 M/C)	2-20, 5-50, 10-100, 20-200 (M/C 5-50, 50-300)	Proline® 1	Eppendorf®
				Electronic	
0.1-2.5, 0.5-10	0.1-2.5, 0.5-10, 2-20 micro	2-20,10-100, 50-200	2-20,10-100, 50-200	Reference	
				Research Pro	Eppendorf®
				Research	
0.1-2.5, 0.5-10	0.1-2.5, 0.5-10, 2-20 micro	2-20, 10-100,20-200 (M/C 10-100)	2-20, 10-100,20-200 (M/C10-100, 30-300)	Research Plus	Gilson
				Pipetman	
				Pipetman Ultra	
0.2-2, 1-10	0.2-2, 1-10	2-20, 20-100, 50-200	2-20, 20-100, 50-200	Pipetman Classic,G,L	Rainin®
				EDP3	
				EDP1	
0.1-2, 0.5-10	0.1-2, 0.5-10	2-20,10-100, 20-200	2-20,10-100, 20-200	Pipet Lite SL	
				Classic	Thermo Electron Finnpipette™
				Digital	
				Focus	
				Biocontrol	
0.2-2, micro,0.5-5, micro	0.2-2, micro,0.5-5, micro	0.5-5, 2-20, 5-50, 10-100, 20-200, (M/C 5-50)	0.5-5, 2-20, 5-50, 10-100, 20-200, (M/C 5-50, 50-300)	Finnpipette 4500	
				<p><b>Tip Fit</b></p> <p>We have indicated the tip compatibility with popular brands and models of pipette. Manufacturers can however change their pipette specifications without our knowledge, so it is always best to ask for samples and check tip fit with your particular pipettes. Likewise, if your pipette is not shown in the tip fit tables, please request samples or contact us for advice.</p> <p>Please note that the tip's maximum volume must not be exceeded, regardless of the volume range of your pipette.</p> <p><i>All tips illustrated are actual size unless otherwise stated</i></p>	
Filter Tips available	Filter Tips available	Filter Tips available	Filter Tips available		
LP010N 1000	LP010XLN 1000	LP200N 1000		Cat. No. Pack Size	Loose Non-Sterile
					
			LP300NR 10 x 96	Cat. No. Pack Size	Racked Non-Sterile
					
				Cat. No. Pack Size	Racked Sterile
					



# Pipette Tips

Tip Description and Volume Range $\mu\text{l}$		100-1000 $\mu\text{l}$ 'Everyday' Ultrafine	100-1000 $\mu\text{l}$	100-1000 $\mu\text{l}$ Ultrafine	100-1000 $\mu\text{l}$ Reference Ultrafine	
Coding and Certification (see page 33)			E,G	D,E,M,R	D,E,M,R	
Pipette Make	Model	Pipette Volume Range $\mu\text{l}$				
alpha+	Variable Volume	100-1000	100-1000	100-1000	100-1000	
	Fixed Volume	250, 500, 1000	250, 500, 1000	250, 500, 1000	250, 500, 1000	
	Multi Channel			100-1000	100-1000	
Sartorius (Biohit)	Picus®/Picus®NxT Single Channel	50-1000		50-1000	50-1000	
	Picus®/Picus®NxT Multi Channel					
	eLINE®	50-1000		50-1000	50-1000	
	Tacta/mLINE®/Proline Plus®	100-1000	100-1000	100-1000	100-1000	
	Proline® <sup>1</sup>		100-1000			
Eppendorf®	Electronic					
	Reference	100-1000		100-1000	100-1000	
	Research Pro	50-1000		50-1000	50-1000	
	Research	100-1000		100-1000	100-1000	
	Research Plus	M/C 30-300	100-1000	100-1000	100-1000	
Gilson	Pipetman	P1000		P1000	P1000	
	Pipetman Ultra	U1000		U1000	U1000	
	Pipetman Classic,G,L	20-1000	200-1000	20-1000	20-1000	
Rainin®	EDP3	100-1000		100-1000	100-1000	
	EDP1	100-1000		100-1000	100-1000	
	Pipet Lite SL	100-1000	100-1000	100-1000	100-1000	
	Classic					
Thermo Electron Finnpipette™	Digital					
	Focus	100-1000		100-1000	100-1000	
	Biocontrol					
	Novus	100-1000		100-1000	100-1000	
	Finnpipette 4500		100-1000			
<b>Tip Coding and Certification</b> <b>Key available</b> - see page 33  		 <i>everyday</i>				
<p>All tips illustrated are actual size unless otherwise stated</p>						
 <b>Filter Tips available</b>						
Loose Non-Sterile		Cat. No.	ED1000	LP1000B	LW6471	LW6481
		Pack Size	1000	1000	1000	1000
Racked Non-Sterile		Cat. No.			LW6470	
		Pack Size			6 x 96	
Racked Sterile		Cat. No.			LW6475S	
		Pack Size			6 x 96	

1. Also labelled as Jencons Sealpette and as Genex.

1000-5000µl Finnpipette	1000-5000µl Gilson Reference	1000-5000µl Eppendorf Sartorius	1000-10,000µl Universal Reference	1000-10,000µl Gilson Reference	100-1250µl Low Retention	Tip Description and Volume Range µl	
M,R	D,E,G,R	D,E,G,R	D,E,G,R	Ds,E	E,G,N	Coding and Certification (see page 33)	
Pipette Volume Range µl						Model	Pipette Make
		500-5000		1000-10,000	100-1000	Variable Volume	alpha+
		2000, 5000		10,000	250, 500, 1000	Fixed Volume	
						Multi Channel	
		100-5000				Picus®/NxT Single Channel	Sartorius (Biohit)
						Picus®/NxT Multi Channel	
		100-5000				eLINE®	
		500-5000	1000-10,000		100-1000	Tacta/mLINE®/Proline+	
		1000-5000			100-1000	Proline® <sup>1</sup>	Eppendorf®
						Electronic Reference	
		100-5000				Research Pro	
		500-5000	1000-10,000			Research	
					100-1000	Research Plus	Gilson
	P5000		P10ml	P10ml		Pipetman	
	U5000					Pipetman Ultra	
					200-1000	Pipetman Classic,G,L	Rainin®
						EDP3	
						EDP1	
					100-1000	Pipet Lite SL	
						Classic	Thermo Electron Finnpipette™
						Digital	
						Focus	
						Biocontrol	
						Novus	Finnpipette™
					100-1000	Finnpipette 4500	
							
							
	Filter Tips available	Filter Tips available	Filter Tips available				
LW1062 250	LW1127 250	LW7829 250	LW7833 200	LP10000B 200	LP1250N 1000	Cat. No. Pack Size Price/Pack	 Loose Non-Sterile
	LW1129 / LW1122 2 x 50 / 10 x 50					Cat. No. Pack Size Price/Pack	 Racked Non-Sterile
	LW1128 2 x 50	LW7828 2 x 50	LW7835 2 x 25			Cat. No. Pack Size Price/Pack	 Racked Sterile

### Tip Fit

We have indicated the tip compatibility with popular brands and models of pipette. Manufacturers can however change their pipette specifications without our knowledge, so it is always best to ask for samples and check tip fit with your particular pipettes. Likewise, if your pipette is not shown in the tip fit tables, please request samples or contact us for advice.

Please note that the tip's maximum volume must not be exceeded, regardless of the volume range of your pipette.

*All tips illustrated are actual size unless otherwise stated*

## **Fastrak**® Tip Rack Refill System – tip refills redefined

**Fastrak**® is an ingenious, pipette tip refill system, designed to reduce waste, save time and help you lower your carbon footprint. Compared with other refill systems, it is smaller, lighter and has less packaging.

- Simple to use
- Maximises storage space
- Eco-friendly – 95% renewable packaging materials
- Low packaging weight – reduces fuel used in transportation
- BioPolymer base and vegetable-based printing inks
- Uses quality Alpha tips made from 100% virgin polypropylene
- Made using 30% Solar Power

**Fast racking**

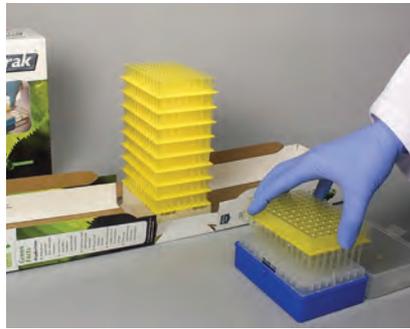
**Less packing**

**Quality tips**

How **Fastrak**® works



1. Open **Fastrak**® and grasp transfer top. Lift straight up.



2. Align transfer top over rack and lower the refill into position.



3. Push down on transfer top to release refill plate. Return transfer top to **Fastrak**® refill stack and close.

See a demonstration video online at [www.alphalabs.co.uk](http://www.alphalabs.co.uk)

Transfer top made of recycled PET

Tips are certified DNA/DNase/RNase free lot by lot

Stack base made from recyclable bioplastic

Minimal package weight reduces waste and transport energy consumption

Transfer top keeps tips clean and prevents tip wobble during refilling. You refill without having to touch the tips or racks so no worries about contamination.

When opened **Fastrak**® is extremely stable

Printed with soya inks to reduce heavy metal pollution

Box made from 100% recycled paper

Reclosable package with small footprint takes up less space in the lab

**Fastrak**® Pipette Tip Refill System

Green Facts Production

- Packaging is made from 100% recycled materials
- Carbon made from 95% renewable energy
- Stack base made from 100% recycled fibres
- 30% Solar Power
- Printed with soya inks to reduce heavy metal pollution
- All pre-consumption waste is recycled

Alpha Tip made from 100% virgin polypropylene

## Tip Fit

**Fastrak** tips are compatible with a wide range of single and multi-channel pipettes including:

- alpha+
- Sartorius
- Gilson
- Eppendorf
- Thermo Finn pipette
- Thermo Matrix
- Rainin
- Brand

Naturally it is vital to have a good tip fit for your particular pipette. The ability of a tip to fit a pipette can vary even for the same brand and model due to:

- tip cone wear
- manufacturers' use of different tip cones in various geographic locations
- new designs and improvements

The compatibility of our tips with new and existing models is checked on a regular basis and an up-to-date tip fit guide is available on our website. To download your copy, visit [www.alphalabs.co.uk/fastrak-tip-fit](http://www.alphalabs.co.uk/fastrak-tip-fit). We do however recommend that you still test out the fit of your chosen tip on your particular pipette.

## Formats

- **Autoclavable** – **Fastrak** tips and racks can be autoclaved at 121C for 15 minutes (15 PSI)
- **Ultrafine** – Most of the **Fastrak** tips are 'Ultrafine' and feature a thin, flexible section at the end which is non-bevelled. This facilitates the dispensing of every drop of sample from the tip.
- **Racks** – It is quick and easy to refill your used Alpha tip racks or alternatively, we can supply you with free empty racks to get you started. There is a choice of square or round-holed racks for tips up to 250µl. Round-holes are particularly good for multichannel pipettes as they have an anti-wobble feature.

## Empty Racks

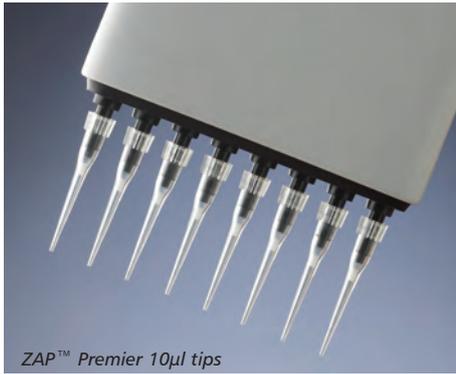
Catalogue Number	Description	Colour	Compatibility Code	Pack Size
FR9200	Square-holed Racks for 10,20,200 & 250µl Tips	Blue	C	10
FR9500	Round-holed Racks for 10,20,200 Tips	Blue	A	10
FR9000	Square-holed Racks for 300,1000 & 1250µl Tips	Blue	B	6

	0.1-10µl Ultrafine Micro	0.1-10µl Ultrafine Extended	1-200µl Universal Bevel	1-200µl Reference Bevel	1-200µl Reference Ultrafine	1-300µl Ultrafine	100-1250µl Ultrafine	0.1-20µl Ultrafine Rainin LTS *	0.5-250µl Ultrafine Rainin LTS *	100-1000µl Ultrafine Rainin LTS *	
Tip Cat No.	FR1015	FR1010	FR1200	FR2200	FR0250	FR1300	FR1250	FR3020	FR3250	FR3000	
Tip Fit alpha+ Variable Volume	0.1-2.5, 0.5-10	0.1-2.5, 0.5-10	2-20, 5-50, 10-100, 20-200	2-20, 5-50, 10-100, 20-200	2-20, 5-50, 10-100, 20-200	2-20, 5-50, 10-100, 20-200	100-1000				
Tip Fit alpha+ Fixed Volume	2.5, 5, 10	2.5, 5, 10	20, 25, 40, 50, 100, 200	20, 25, 40, 50, 100, 200	20, 25, 40, 50, 100, 200	20, 25, 40, 50, 100, 200	250, 500, 1000				
Tip Fit alpha+ Multi Channel	0.5-10	0.5-10	5-50, 10-100, 20-200	5-50, 10-100, 20-200	5-50, 10-100, 20-200	5-50, 10-100, 20-200, 30-300	100-1000				
Non-Sterile	Cat. No.	FR1015	FR1010	FR1200	FR2200	FR0250	FR1300	FR1250	FR3020	FR3250	FR3000
	Pack Size	13 x 96	14 x 96	10 x 96	10 x 96	10 x 96	6 x 96	5 x 96	11 x 96	10 x 96	5 x 96
Rack Compatibility		A / C	A / C	A / C	A / C	A / C	B	B	A / C	C	B

All tips illustrated are actual size unless otherwise stated \*LTS (\*Lite Touch System) is a trademark of Mettler Toledo



# Pipette Tips



ZAP™ Premier 10µl tips

## ZAP™ Premier Filter Tips

- The ultimate in pipette and sample protection
- Perfect for PCR and other demanding applications

ZAP™ Premier filter tips give you ultimate protection for both your pipette and sample without making a big hole in your budget. There is a wide range to fit most brands of pipette.

## Protect your Pipette

ZAP™ Premier filter tips feature a unique 10µm pore size filter. These pores are 100% smaller than those in most other filter tips and effectively trap aerosols containing DNA, radionucleotides and other contaminants, preventing them from entering the barrel of the pipette and keeping it clean.

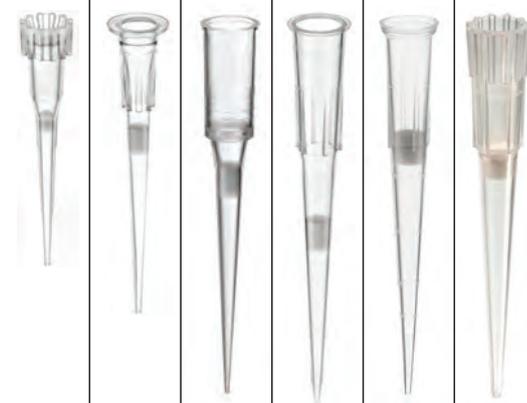
## Protect your Sample

The filter also works to protect your sample. It blocks fluid passage so that in the event of over-pipetting, your sample will not be absorbed and can be completely dispensed without any loss. Contamination of the sample by the filter is avoided as it is made from high purity polyethylene and inserted robotically into the tip. Every batch of tips is tested and certified to be free of RNase, DNase, Human DNA. They are also certified as non-pyrogenic including the filter.

## Protect your Budget

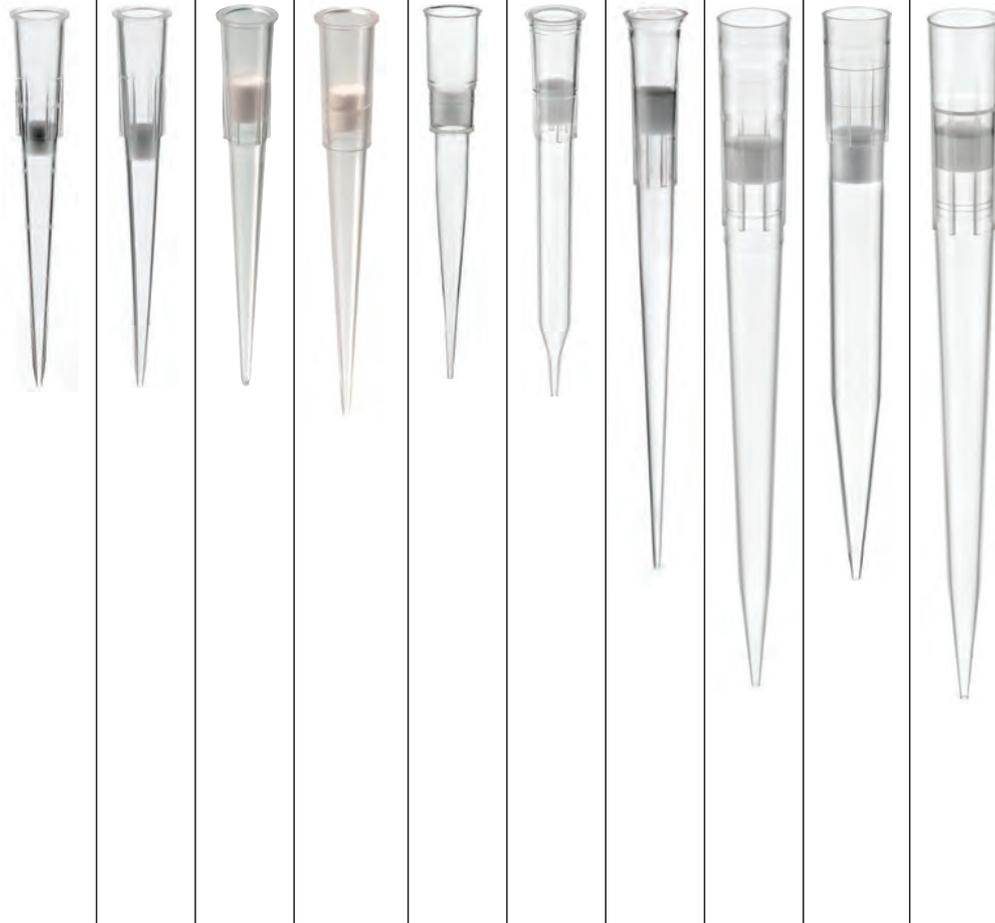
ZAP™ Premier filter tips are sensibly priced to take account of restricted budgets and what's more, due to the high density of the filter, ZAP™ Premier filter tips are autoclavable. That means, if you don't use the entire box of tips, they need not be wasted. You can sterilise them again and the filters will not warp.



Tip Description and Volume Range µl		1-10 µl ZAP Premier Micro	1-10 µl ZAP Premier Extended	1-20 µl ZAP Premier LTS*	1-40 µl ZAP Premier Bevel	1-50 µl ZAP Premier Reference	1-100µl ZAP Premier Bevel
Coding and Certification (see page 33)		D,E,G,M,R,U	D,E,M,R,U	D,E,M,R,T,U	D,E,M,R	D,E,G,M,R,U	D,E,M,R
Pipette Make	Model	Pipette Volume Range µl					
alpha+	Variable Volume	0.1-2.5, 0.5-10	0.1-2.5, 0.5-10		5-50		10-100
	Fixed Volume	2.5, 5, 10	2.5, 5, 10		20, 40, 50		100
	Multi Channel	0.5-10	0.5-10		5-50	5-50	10-100
Sartorius (Biohit)	Picus®/NXT Single Channel	0.2-10	0.2-10		5-120	5-120, 10-300	5-120, 10-300
	Picus®/NXT Multi Channel	0.2-10	0.2-10		5-120	5-120, 10-300	5-120, 10-300
	eLINE®	0.2-10	0.2-10				
	Tacta	0.1-3, 0.5-10	0.1-3, 0.5-10		2-20	5-100, 10-100	10-100
	mLINE/Proline+	0.1-3, 0.5-10	0.1-3, 0.5-10		2-20	5-100, 10-100	10-100
Proline® <sup>1</sup>		0.5-10	0.5-10			10-100	
Eppendorf®	Electronic	0.2-10	0.2-10		5-100	5-100	5-100
	Reference	0.1-2.5	0.1-2.5		2-20	10-100	10-100
	Research Pro	0.5-10	0.5-10			5-100	5-100
	Research	0.1-2.5, 0.5-10	0.1-2.5, 0.5-10		2-20	10-100	10-100
Research Plus		0.5-10	0.5-10		2-20	10-100	
Gilson	Pipetman	0.2-2, 1-10	0.2-2, 1-10		2-20	20-100	20-100
	Pipetman Ultra	0.2-2, 1-10	0.2-2, 1-10		2-20	20-100	
	Pipetman Classic,G,L	0.2-2, 1-10	0.2-2, 1-10		2-20	20-100	20-100
Rainin®	EDP3	0.5-10	0.5-10	2-20	2-20		10-100
	EDP1	0.5-10	0.5-10	2-20	2-20		10-100
	Pipet Lite SL	0.1-2, 0.5-10	0.1-2, 0.5-10	0.1-2, 0.5-10, 2-20	2-20	10-100	
	Classic						
Thermo Electron Finnpipette™	Digital	0.2-10, 0.5-10	0.2-10, 0.5-10		2-20		
	Focus	0.2-2, 0.5-5, 1-10	0.2-2, 0.5-5, 1-10		2-20	10-100	10-100
	Biocontrol	0.3-3, 0.5-5, 1-10	0.3-3, 0.5-5, 1-10			10-100	10-100 (SC)
	Novus	1-10	1-10				
Finnpipette 4500							
<b>Tip Coding and Certification</b> Key available - see page 33		 					
							
<i>All tips illustrated are actual size unless otherwise stated</i>							
Racked Sterile	Cat. No.	ZP1015S	ZP1010S	ZP3020S	ZP1204S	ZP0250S	ZP2100S
	Pack Size	12 x 96	10 x 96	10 x 96	10 x 96	10 x 96	10 x 96

\*LTS = Lite Touch System, a trademark of Rainin/Mettler Toledo

1-100µl ZAP Premier Ref. Bevel	1-100µl ZAP Premier Bevel	1-160µl ZAP Premier Bevel	1-200µl ZAP Premier	1-200µl ZAP Premier LTS*	1-300µl ZAP Premier Bevel	1-300µl ZAP Premier Extended	100-1000µl ZAP Premier	100-1000µl ZAP Premier Flextop	100-1000µl ZAP Premier LTS*	Tip Description and Volume Range µl	
D,E,G,M,R,U	D,E,M,R	D,E,M,R	D,E,M,R,U	D,E,M,R,T,U	D,E,M,R	D,E,M,R,U	D,E,M,R,U	D,E,M,R,T,U	D,E,M,R,T,U	Coding and Certification (see page 33)	
Pipette Volume Range µl										Model	Pipette Make
10-100	10-100	10-100	10-100, 20-200		20-200	20-200	100-1000	100-1000		Variable Volume	alpha+
100	100	100	100, 200		200	200	250, 500, 1000	250, 500, 1000		Fixed Volume	
5-50, 10-100	5-50, 10-100	5-50, 10-100	5-50, 10-100, 20-200		20-200, 30-300	20-200, 30-300	100-1000	100-1000		Multi Channel	
5-120, 10-300	5-120, 10-300	10-300	10-300		10-300	10-300				Picus®/Nxt Single Channel	Sartorius (Biohit)
5-120, 10-300	5-120, 10-300	10-300	10-300		10-300	10-300				Picus®/Nxt Single Channel	
		5-120					50-1000	50-1000		eLINE®	Sartorius (Biohit)
10-100	10-100, 20-200(SC)		20-200		20-200					Tacta	
10-100	10-100, 20-200(SC)		20-200		20-200		100-1000	100-1000		mLINE®/Proline+	
10-100	10-100	5-50	50-200		10-250	50-200, 50-300	200-1000	200-1000		Proline® <sup>1</sup>	Eppendorf®
5-100	5-100									Electronic	
10-100	10-100	50-200	5-100		50-200	50-200	100-1000	100-1000		Reference	
5-100	5-100	5-100	50-200			20-200(SC) 30-300(MC)	50-1000	50-1000		Research Pro	Eppendorf®
10-100	10-100	20-200	20-200		20-200	20-200(SC) 30-300(MC)	100-1000	100-1000		Research	
10-100	10-100		20-200 (Not M/C)		20-200	20-200	100-1000	100-1000		Research Plus	
20-100	20-100	50-200	50-200		50-200	50-200	200-1000	200-1000		Pipetman	Gilson
20-100	20-100	20-200	20-200		20-200	20-200	200-1000	200-1000		Pipetman Ultra	
20-100	20-100		20-200		50-200	50-200	200-1000	200-1000		Pipetman Classic, G,L	
			20-200	5-50, 20-200	20-200	20-300	100-1000	100-1000	100-1000	EDP3	Rainin®
			20-200	10-100, 20-200		20-300	100-1000	100-1000	100-1000	EDP1	
10-100	10-100		20-200	10-100, 20-200	20-200	20-300	100-1000	100-1000	100-1000	Pipet Lite SL	
										Classic	Thermo Electron Finnpipette™
		20-200					100-1000	100-1000		Digital	
10-100	10-100					30-300(MC)	200-1000	200-1000		Focus	
10-100(SC)	10-100(SC)					30-300	100-1000	100-1000		Biocontrol	Thermo Electron Finnpipette™
							100-1000	100-1000		Novus	
										Finnpipette 4500	



## Refill Your Empty Racks

ZAP™ Premier tip racks are compatible with the **Fastrak** tip refill system so you can re-use your filter racks once empty, for a greener solution. See page 38-39 for details.

## Tip Fit

SC = Single Channel

M/C = Multichannel

We have indicated the tip compatibility with popular brands and models of pipette. Manufacturers can however change their pipette specifications without our knowledge, so it is always best to ask for samples and check tip fit with your particular pipettes. Likewise, if your pipette is not shown in the tip fit tables, please request samples or contact us for advice.

Please note that the tip's maximum volume must not be exceeded, regardless of the volume range of your pipette.

*All tips illustrated are actual size unless otherwise stated*

ZP2200S	ZP1200S	ZP1210S	ZP2250S	ZP3250S	ZP3300S	ZP1300S	ZP1250S	ZP1100S	ZP3000S	Cat. No.		Racked Sterile
10 x 96	6 x 96	6 x 96	6 x 96	6 x 96	Pack Size							

\*LTS = Lite Touch System, a trademark of Rainin/Mettler Toledo

# Pipette Tips

Tip Description and Volume Range $\mu$ l		Low Retention			1 - 50 $\mu$ l Aerogard <sup>®</sup>	Low Retention												
		0.1-10 $\mu$ l Aerogard <sup>®</sup> Reference	0.1-10 $\mu$ l Aerogard <sup>®</sup> Reference	2-20 $\mu$ l Aerogard <sup>®</sup> Reference		10-100 $\mu$ l Aerogard <sup>®</sup> Reference	20-200 $\mu$ l Aerogard <sup>®</sup> Reference	1-300 $\mu$ l Aerogard <sup>®</sup> Reference	100-1000 $\mu$ l Aerogard <sup>®</sup> Reference									
Coding and Certification (see page 33)		D,E,G,M,N,R	D,E,G,M,N,R	D,E,G,M,N,R	D,E,M,R	D,E,G,M,N,R	D,E,G,M,N,R	D,E,G,M,N,R	D,E,G,M,N,R									
Pipette Make	Model	Pipette Volume Range $\mu$ l																
alpha+	Variable Volume	0.1-2.5, 0.5-10	0.1-2.5, 0.5-10	2-20	1-50		5-50		10-100									
	Fixed Volume	2.5, 5, 10	2.5, 5, 10	20	50		20, 40		100									
	Multi Channel	0.5-10	0.5-10					5-50	10-100									
Sartorius (Biohit)	Picus <sup>®</sup> /Picus <sup>®</sup> NxT Single Channel	0.2-10	0.2-10	5-120, 10-300		10-300												
	Picus <sup>®</sup> /Picus <sup>®</sup> NxT Multi Channel	0.2-10	0.2-10															
	eLINE <sup>®</sup>																	
	Tacta/mLINE <sup>®</sup> /Proline Plus <sup>®</sup>		0.1-3, 0.5-10	2-20, 10-100		20-200	20-200	2-20, 10-100, 20-200 (M/C 5-100, 30-300)	100-1000									
Eppendorf <sup>®</sup>	Electronic				5-100													
	Reference	0.5-10, 2-20	0.1-20	2-20, 10-100		1-100, 50-200		2-20, 10-100, 50-200										
	Research Pro				5-100													
	Research Plus	0.5-10	0.1-2.5, 0.5-10	2-200	2-20	1-100, 20-200		2-20, 10-100, 20-200 (M/C 10-100, 30-300)	100-1000									
Gilson	Pipetman	P2, 10	P2, 10	P20, 100		P200	P200											
	Pipetman Ultra	U2, 10	U2, 10	U20, 100		U200	U200											
	Pipetman Classic, G, L							2-20, 20-100, 50-200	200-1000									
Rainin <sup>®</sup>	EDP3																	
	EDP1																	
	Pipet Lite SL							2-20, 10-100, 20-200	100-1000									
	Classic																	
Thermo Electron Finnpipette <sup>™</sup>	Digital			5-40	5-50	5-200	40-200, 50-200											
	Focus	1-10 (micro)	1-10	1-10, 10-100	5-50	10-100, 30-300	10-100, 30-300											
	Biocontrol				5-50													
	Novus																	
	Finnpipette 4500							0.5-5, 2-20, 5-50, 10-100, 20-200, (M/C 5-50, 50-300)	100-1000									
<b>Tip Coding and Certification</b> Key available - see page 33																		
 																		
<p>Aerogard<sup>®</sup> Filter Tips provide excellent protection for your sample and instruments from cross-contamination due to aerosols. They are great for PCR as well as handling radioisotopes, serological samples and viruses. Volumes range from 10<math>\mu</math>l to 10ml ensuring a tip for any application.</p>																		
<p>All tips illustrated are actual size unless otherwise stated</p>																		
Racked Sterile										Cat. No.	LP010NFRS	LP010XLNFRS	LP020NFRS	LW1065	LP100NFRS	LP200NFRS	LP300NFRS	LP1000NFRS
										Pack Size	10 x 96	10 x 96	10 x 96	10 x 96	10 x 96	10 x 96	10 x 96	10 x 96

1. Also labelled as Jencons Sealpette and as Genex.

1000-5000µl Aerogard® Gilson Reference	1000-5000µl Aerogard® Sartorius/ Eppendorf Ref.	1000-10,000µl Aerogard® Universal Reference	Tip Description and Volume Range µl	
D,E,G,R	D,E,G,R	D,E,G,R	Coding and Certification (see page 33)	
Pipette Volume Range µl			Model	Pipette Make
	500-5000		Variable Volume	alpha+
	2000, 5000		Fixed Volume	
			Multi Channel	
	100-5000	500-10,000	Picus®/Picus®Nxt Single Channel	Sartorius (Biohit)
			Picus®/Picus®Nxt Multi Channel	
	100-5000		eLINE®	
	500-5000	1000-10,000	Tacat/mLINE®/Proline Plus®	
	1000-5000		Proline® 1	
			Electronic Reference	Eppendorf®
	100-5000	1000-10,000	Research Pro	
	500-5000		Research	
			Research Plus	
P5000		P10ml	Pipetman	Gilson
U5000		U10ml	Pipetman Ultra	
			Pipetman Classic,G,L	
			EDP3	Rainin®
			EDP1	
			Pipet Lite SL	
			Classic	Thermo Electron Finnpipette™
			Digital	
			Focus	
			Biocontrol	
			Novus Finnpipette 4500	




**Tip Fit**  
M/C = Multichannel

We have indicated the tip compatibility with popular brands and models of pipette. Manufacturers can however change their pipette specifications without our knowledge, so it is always best to ask for samples and check tip fit with your particular pipettes. Likewise, if your pipette is not shown in the tip fit tables, please request samples or contact us for advice.

Please note that the tip's maximum volume must not be exceeded, regardless of the volume range of your pipette.

*All tips illustrated are actual size unless otherwise stated*

LW1124	LW7832	LW7836	Cat. No.	 Racked Sterile
2 x 50	2 x 50	2 x 25	Pack Size	

## alpha+ Pipettes

- Accuracy
- Performance
- Value



These lightweight, easy-to-use pipettes are robust and reliable even in the most challenging environments.

They provide unsurpassed accuracy at a very affordable price for true quality and economy.

See pages 14-15 for more details.

# Pipette Tips

Tip Description and Volume Range $\mu$ l		Cellsaver Tips			Gel Loading Tips				
		100-1000 $\mu$ l Aerogard® Cell Saver	1-200 $\mu$ l Cell Saver	101-1000 $\mu$ l Cell Saver	0.1-10 $\mu$ l Gel Tip Round*	10 $\mu$ l Gel Tip Flat 0.17mm	10 $\mu$ l Gel Tip Flat 0.37mm	10 $\mu$ l Gel Tip Round 0.57mm	
Coding and Certification (see page 33)		D,E,M,R	E,G,R	E,G,R		D,E,G,R	D,E,G,R	D,E,G,R	
Pipette Make	Model	Pipette Volume Range $\mu$ l							
alpha+	Variable Volume	100-1000	2-20, 5-50, 10-100, 20-200	100-1000	0.1-2.5, 0.5-10	0.1-2.5, 0.5-10	0.1-2.5, 0.5-10	0.1-2.5, 0.5-10	
	Fixed Volume	250, 500, 1000	20, 25, 40, 50, 100, 200	250, 500, 1000	2.5, 5, 10	2.5, 5, 10	2.5, 5, 10	2.5, 5, 10	
	Multi Channel	100-1000	5-50, 10-100, 20-200						
Sartorius (Biohit)	Picus®/Picus®N&T Single Channel								
	Picus®/Picus®N&T Multi Channel								
	eLINE®	50-1000							
	Tacta		2-20, 10-100, 20-200 (5-100 M/C)	100-1000	0.5-10				
	mLINE®/Proline Plus®	100-1000	2-20, 10-100, 20-200 (5-100 M/C)	100-1000	0.5-10				
Eppendorf®	Proline® <sup>1</sup>	200-1000	2-20, 5-50, 10-100, 20-200 (5-50 M/C)	100-1000		0.1-2.5, 0.5-10	0.1-2.5, 0.5-10	0.1-2.5, 0.5-10	
	Electronic								
	Reference	100-1000	2-20,10-100, 50-200		0.1-10	0.1-2.5, 0.5-10	0.1-2.5, 0.5-10	0.1-2.5, 0.5-10	
	Research Pro	50-1000							
	Research	100-1000			0.1-2.5, 0.5-10	0.1-2.5, 0.5-10	0.1-2.5, 0.5-10	0.1-2.5, 0.5-10	
Gilson	Research Plus	100-1000	2-20, 10-100, 20-200 (M/C 10-100)	100-1000					
	Pipetman	200-1000			P2, 10	P2, 10	P2, 10	P2, 10	
	Pipetman Ultra	200-1000			U2, 10				
Rainin®	Pipetman Classic,G,L	200-1000	2-20, 20-100, 50-200	200-1000					
	EDP3	100-1000							
	EDP1	100-1000							
	Pipet Lite SL	100-1000	2-20,10-100, 20-200	100-1000		0.2-2, 0.5-10	0.2-2, 0.5-10	0.2-2, 0.5-10	
Thermo Electron Finnpipette™	Classic				1-10				
	Digital	100-1000							
	Focus	200-1000							
	Biocontrol	100-1000							
	Novus	100-1000							
<b>Tip Coding and Certification</b> Key available - see page 33  		0.5-5, 2-20, 5-50, 10-100, 20-200, (M/C 5-50)	100-1000						
		Loose Non-Sterile 	Cat. No.	LP200W	LP1000W	LW1103			
			Pack Size	1000	1000	1000			
		Racked Non-Sterile 	Cat. No.				GL01017NTR	GL01037NTR	GL01057NTR
			Pack Size				2 x 96	2 x 96	2 x 96
		Racked Sterile 	Cat. No.	ZP1250CS			GL01017NTRS	GL01037NTRS	GL01057NTRS
			Pack Size	6 x 96			2 x 96	2 x 96	2 x 96



## Robotic Tips

Tips for automated workstations are subject to stricter tolerances than standard pipette tips. Alpha robotic tips are engineered to the exact specification of the instruments for which they are designed.

They are manufactured from medical grade, virgin polypropylene and undergo rigorous QC testing to assure you of the highest levels of purity and performance.

Our extensive range covers numerous instruments and tip formats. Some products are ex-stock while others are custom-made.

To ensure you make the right choice for your application and that we provide efficient supply, please contact us for samples and to discuss your requirements.

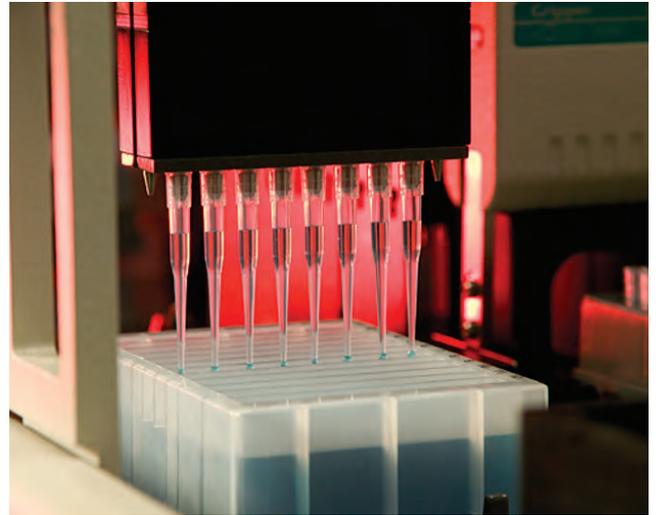
### Robotic Tips for Beckman Biomek®/Multimek™ Workstations

This range has been developed for the Biomek® and Multimek™ workstations fitted with the AP96 liquid handling head. Superior polished moulds result in flash-free tips with minimal liquid retention. They are lot tested on the original manufacturer's instruments and are designed to require no hardware or software adjustments prior to use.



Tips for each robot are available in 3 different volumes in sterile or non-sterile racks. In most cases, we also offer a filter version for added sample and instrument protection.

All tips are certified free of DNase, RNase, human DNA and PCR inhibitors. Sterile tips are also certified free of pyrogens.



### For Biomek® FX, NX, 3000 and Multimek 96 Workstations

Tip Volume		Software Designation		Racked Non-Sterile
20µl		AP96 Head 10	Cat. No.	LW1501R
			Pack Size	10 x 96
50µl		AP96 Head 10	Cat. No.	LW1548R
			Pack Size	10 x 96
250µl		AP96 Head 10	Cat. No.	LW1504R
			Pack Size	10 x 96

All tips illustrated are actual size unless otherwise stated

## Robotic Tips for Tecan/Corbett Qiagen/Perkin Elmer Workstations

These tips easily dispense small volumes with very high precision. Both conductive (black) and non-conductive (natural) options are available.

The conductive tips are manufactured using a composite of conductive carbon black and polypropylene which carries liquid-level sensing properties.

Minimal immersion is guaranteed as the tip filling height is recognised by the system.

This ensures greater accuracy during aspirating and dispensing steps.



STERILE



NON-STERILE

### For Tecan Genesis®, Freedom EVO®, MiniPrep®, Cavro® workstations and PerkinElmer/Packard MultiPROBE® II HT, MultiPROBE® II HT EX workstation

Tip Volume			Racked Non-Sterile	Racked Filter Sterile
10µl		Cat. No.	RT1577R	
		Pack Size	10 x 96	
50µl		Cat. No.	RT1582R	RT1585RS-BU
		Pack Size	10 x 96	12 x 2 x 96
200µl		Cat. No.	RT1586R	
		Pack Size	10 x 96	
200µl		Cat. No.	RT1589R	RT1592RS-BU
		Pack Size	10 x 96	12 x 2 x 96
1000µl		Cat. No.	RT1593R	
		Pack Size	10 x 96	
1000µl		Cat. No.	RT1596R	RT1599RS-BU
		Pack Size	10 x 96	12 x 2 x 96

All tips illustrated are actual size unless otherwise stated

# Pipette Tips

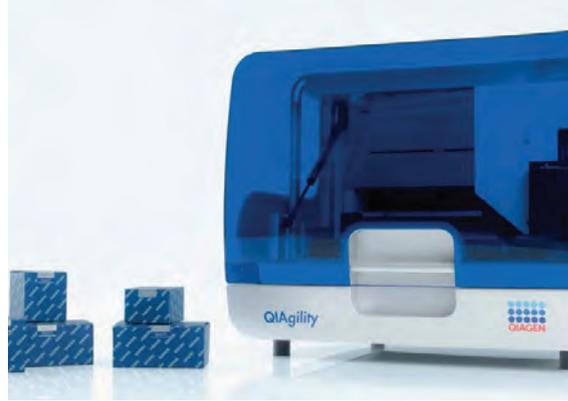
## Robotic Tips for Qiagen Workstations

These tips are designed for the following workstations:

**Qiagen Biorobots:** Model 3000 • Model 8000  
Model 9600 • Model 9604 • Rosys • Colibri

**QIAgility (formerly Corbett CAS-1200)**

We offer a full range of conductive tips including non-sterile, sterile and filtered. Non-conductive tips other than the 1100µl filter tip are available on request.



STERILE

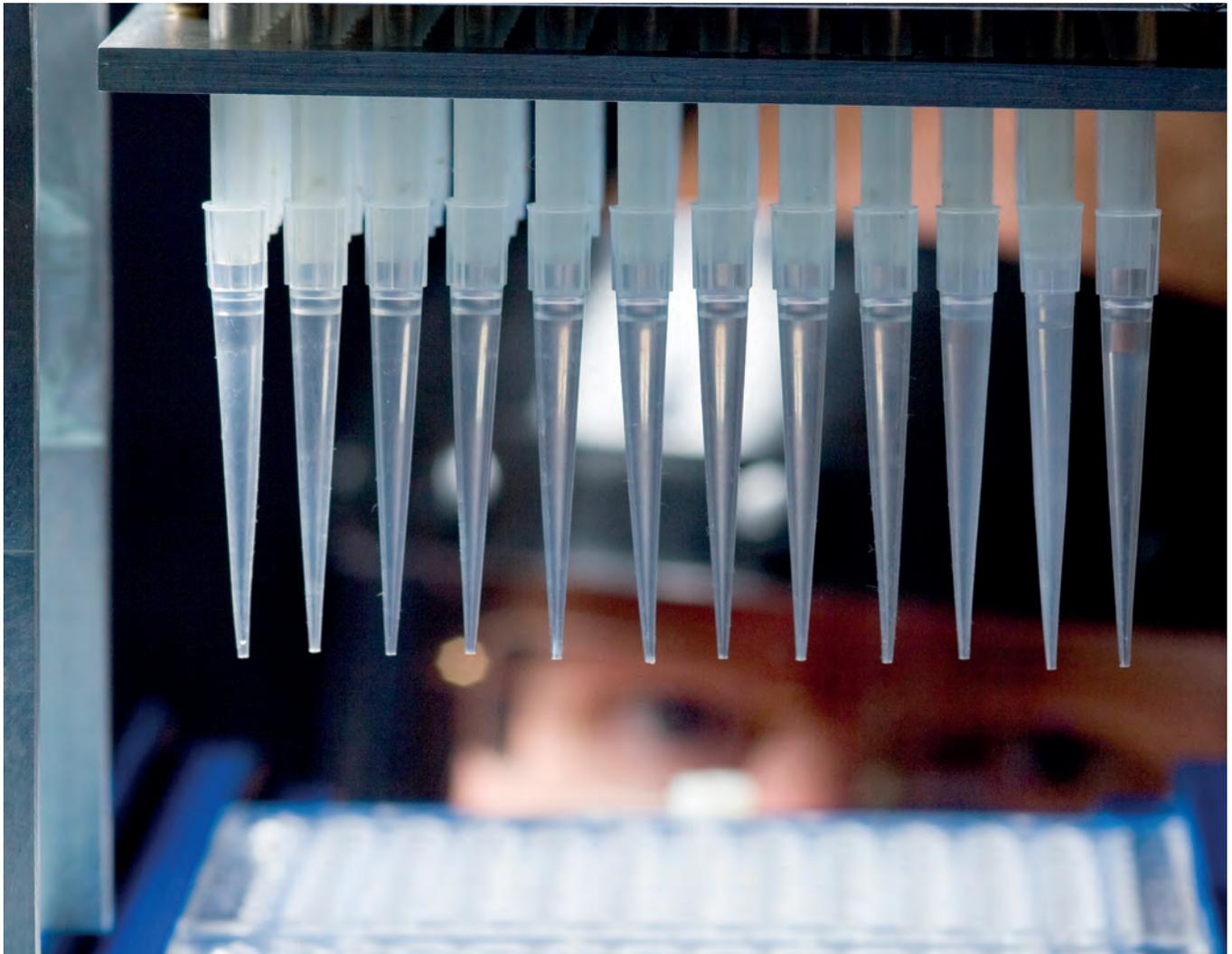


NON-STERILE

### For Qiagen Biorobots 3000, 8000, 9600, 9604, Rosys and Colibri Workstations

Tip Volume			Racked Non-Sterile	Racked Filter Sterile
300µl		Cat. No.	RT1552R	RT1555RS-BU
		Pack Size	10 x 96	12 x 2 x 96
1100µl		Cat. No.	RT1553R	RT1557RS-BU
		Pack Size	10 x 96	12 x 2 x 96

All tips illustrated are actual size unless otherwise stated



## Robotic Tips for Hamilton Microlab Star Line Workstations

These conductive tips are produced under clean room conditions and are tested free from DNase, RNase, ATP and Pyrogens. Each lot is tested according to a rigorous quality management system to ensure reproducible results in your application.



STERILE



NON-STERILE

### For Hamilton Microlab Star Line workstations

Tip Volume			Blister Non-Sterile	Blister Filter Non-sterile	Stack Rack
10 $\mu$ l		Cat. No.	RT15100	RT15101	
		Pack Size	16 x (5 x 96)	16 x (5 x 96)	
50 $\mu$ l		Cat. No.	RT15105	RT15106	RT15109
		Pack Size	16 x (5 x 96)	16 x (5 x 96)	2 x (4 x 5 x 96)
300 $\mu$ l		Cat. No.	RT15110	RT15111	RT15114
		Pack Size	16 x (5 x 96)	16 x (5 x 96)	2 x (4 x 5 x 96)
1000 $\mu$ l		Cat. No.	RT15115	RT15116	
		Pack Size	10 x (5 x 96)	10 x (5 x 96)	

## Robotic Tips for Beckman Coulter and Olympus Workstations

Modern healthcare institutes require the highest standards from their diagnostic partners including those specialising in clinical chemistry, immunochemistry or blood grouping applications. These tips have been developed for clinical diagnostic instruments where a smooth production flow and high quality results are essential to patient care.



NON-STERILE

### For Beckman Coulter Automate 1250/2550 and Olympus OLA2500 workstations

Tip Volume			Racked Non-Sterile
1200 $\mu$ l		Cat. No.	RT15000
		Pack Size	8 x 140

All tips illustrated are actual size unless otherwise stated

## Pipette Tips

At Alpha Laboratories we are proud to have achieved the international environmental management standard certification BS EN ISO 14001 : 2004.

The standard provides a straight-forward approach to using less energy resource and reducing waste.

But we go beyond that, building into our business ways to help you and your laboratory become greener too...

- **Fastrak® - the most eco-friendly tip refill system**
- **Low packaging weight – reduces fuel used in transportation**
- **95% renewable packaging materials**
- **Biopolymer base and vegetable-based printing inks**
- **Made using 30% Solar Power**



Find out more at our website

## Quality Consumables for Sample Collection, Transport, Storage and Processing

The quality of analytical results is often dependent upon how samples have been collected, transported, stored and processed, prior to being tested.

Using high quality consumables that maintain sample integrity, ensure no assay interference, prevent leakage and comply with transport regulations is essential.

Alongside our established range including a wide variety of sample tubes and containers we now have many products to support your additional sample handling needs.

### What's New?

- ProtectR® CO<sub>2</sub> Resistant Tubes
- EveryDay Specimen Containers
- 5 and 10ml Transport Tubes
- Micro Slide Containers

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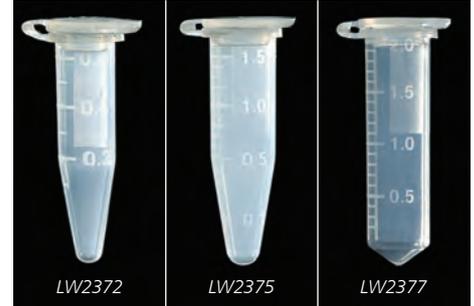


## Tubes for Sample Processing and Storage

### Flip-Cap Microcentrifuge Tubes

#### APEX® 'Tough' Microcentrifuge Tubes

APEX® 'Tough' Microcentrifuge Tubes are great all-rounders. These polypropylene tubes have a centrifuge rating of 20,000g and temperature range of -90 to 121C making them suitable for a wide range of techniques. The secure closure makes these tubes ideal for boiling applications.



'Tough' Microcentrifuge Tubes		
Catalogue Number	Description	Pack Size
LW2372*	0.5ml Microcentrifuge Tube Natural	1000
LW2375*	1.5ml Microcentrifuge Tube Natural	2 x 500
LW2377	2.0ml Microcentrifuge Tube Natural	2 x 500
LW2377AS	2.0ml Microcentrifuge Tube Assorted	2 x 500

\*Other colours available. Please see our website.



LW2375AS (representative image)

#### APEX® 'Soft-Release' Microcentrifuge Tubes

Manufactured from UltraClear® copolymer polypropylene, the APEX® 'Soft-Release' range of tubes is designed with a wide-opening flange for easy, one-handed opening. The reduced closure resistance of these tubes makes processing large batches of samples that much easier.

Rated to 20,000g.

Not suitable for boiling applications.



'Soft-Release' Microcentrifuge Tubes		
Catalogue Number	Description	Pack Size
LW2455*	1.5ml 'Soft-Release' Microcentrifuge Tube Natural	500

\*Other colours available. Please see our website.



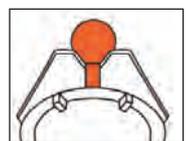
LW2455AS (representative image)

#### APEX® 'True-Lock' Microcentrifuge Tubes

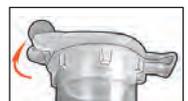
APEX® 'True-Lock' Microcentrifuge Tubes have a secure locking mechanism to provide extra security for your samples. The innovative CLIKLOK™ design includes a clasp, which can be bent upward to secure the cap and prevents accidental opening of these tubes. Certified RNase, DNase and DNA free and rated to 20,000g APEX® 'True-Lock' tubes are suitable for a wide range of applications.



LW2486



Locking mechanism preventing accidental opening of lid



'True-Lock' Microcentrifuge Tube		
Catalogue Number	Description	Pack Size
LW2486	1.5ml 'True-Lock' Microcentrifuge Tube	500

## Flip-Cap Microcentrifuge Tubes

### APEX® 'NoStick'™ Microcentrifuge Tubes

A perfect alternative to home-made siliconised tubes and ideal for RNA and DNA work. The proprietary formulation of homopolymer polypropylene creates a 'No Stick' tube with extra-low adhesion, eliminating the need to coat the tube with any other agent. It is therefore completely non-reactive to your samples. Rated to over 20,000g and certified free from RNase, DNase and DNA.



LW2400 LW2410 LW2420  
LW2410AS (representative image)

#### 'NoStick'™ Hydrophobic Microcentrifuge Tubes

Catalogue Number	Description	Pack Size
LW2400	0.5ml 'NoStick' Microcentrifuge Tube Natural	500
LW2410*	1.5ml 'NoStick' Microcentrifuge Tube Natural	250
LW2420	2.0ml 'NoStick' Microcentrifuge Tube Natural	250

\*Assorted packs available, add suffix: AS=assorted.

### APEX® 'Mini' Microcentrifuge Tubes

The APEX® 'Mini' Microcentrifuge tubes are designed for applications using smaller volumes and certified RNase and DNase free. The 0.25ml tube is manufactured from autoclavable polypropylene and has a centrifuge rating of 30,000g. The 0.4ml tube is made with low density polyethylene which is soft and can be easily cut to facilitate pellet removal.



LW2078



LW2070

#### 'Mini' Microcentrifuge Tubes

Catalogue Number	Description	Pack Size
LW2078	0.25ml Microcentrifuge Tube Natural	1000
LW2070	0.40ml Microcentrifuge Tube Natural	1000

### Which range is best for me?

Feature	Tough	Soft-Release	True-Lock	NoStick	Mini 0.25ml	Mini 0.40ml
Volume	0.5, 1.5, 2.0ml	1.5ml	1.5ml	0.5, 1.5, 2.0ml	0.25ml	0.40ml
Spin Rating	20,000g	20,000g	20,000g	20,000g	30,000g	25,000g
Colours	Yes	Yes	No	Yes	No	No
Amber	Yes	Yes	No	No	No	No
DNase, RNase & DNA free	Yes	Yes	Yes	Yes	No*	No*
Autoclavable	Yes	Yes	Yes	Yes	Yes	No
Material	PP	PP	PP	PP	PP	LDPE

\*DNase and RNase free only

PP = Polypropylene LDPE = Low Density Polyethylene

## Screw-Cap Microcentrifuge Tubes

### APEX® Screw-Cap Microcentrifuge Tubes



APEX® Screw-Cap Microcentrifuge Tubes are ideal for sample collection, processing and storage. Manufactured from virgin polypropylene, this range of tubes has low-binding properties and is certified free from RNase, DNase, human DNA and PCR inhibitors. Both cap and tube are produced from the same material and share expansion coefficients to provide uniform rates of expansion and contraction in response to temperature change, offering a high quality leak-resistant design.



LAL testing is only performed on sterile caps and tubes, therefore only sterile product is certified pyrogen free.

APEX® screw-caps are available in a multitude of colours for convenient colour coding of samples or reagents. APEX® SafeGrip caps are also available for use with the APEX® Screw-Cap Microcentrifuge Tube range.

*Caps featured on this page do not fit APEX® White Label tubes.*

### Screw-Cap Microcentrifuge Tubes

Catalogue Number	Description	Pack Size
<b>Screw-Cap Microcentrifuge Tubes, non-sterile, without cap</b>		
CP5910	0.5ml Conical	500
CP5911	1.5ml Conical	500
CP5912	2.0ml Conical	500
CP5913*	0.5ml Free-Standing	500
CP5914*	1.5ml Free-Standing	500
CP5915*	2.0ml Free-Standing	500
<b>Screw-Cap Microcentrifuge Tubes, sterile, including fitted tethered cap</b>		
CP5921	1.5ml Conical	500
CP5922	2.0ml Conical	500
CP5923	0.5ml Free-Standing	500
CP5924	1.5ml Free-Standing	500
CP5925	2.0ml Free-Standing	500
<b>Screw-Cap Microcentrifuge Tubes, sterile, including fitted standard cap</b>		
CP5930	0.5ml Conical	500
CP5931	1.5ml Conical	500
CP5932	2.0ml Conical	500
CP5933	0.5ml Free-Standing	500
CP5934	1.5ml Free-Standing	500
CP5935	2.0ml Free-Standing	500
<b>Screw-Caps only, non-sterile</b>		
CP5940N*	Screw-Cap, Natural	500
<b>Tethered Screw-Caps only, non-sterile</b>		
CP5950AS*	Screw-Cap, Assorted	500

\* Other colours available. Please see our website.



CP5940AS

(assorted colours - please see our website)

### APEX® 'SafeGrip' Screw Caps



CP5960AS (representative image)

APEX® 'SafeGrip' screw-caps are specially moulded from tough polypropylene to provide a superior grip – ideal when you need to open tubes while wearing gloves!

Unlike traditional screw-caps with a fitted O-ring, 'SafeGrip' screw-caps have an integral seal moulded into the cap. The inert thermoplastic elastomer seal used in this unique design eliminates the problem of loose O-rings which can detach from the cap. Available in natural, white or various colours, 'SafeGrip' screw-caps are certified free from RNase, DNase, DNA and PCR inhibitors.

### 'SafeGrip' Screw Caps

Catalogue Number	Description	Pack Size
CP5960N*	Screw-Cap, Natural	500

\* Other colours available. Please see our website.

## Screw-Cap Microcentrifuge Tubes

### APEX® 'White Label' Screw-Cap Microcentrifuge Tubes



CP5316WL CP5328WL CP5314WL CP5318WL CP5321WL

The APEX® 'White Label' Microcentrifuge Tubes offer the advantage of a distinct, white labelling area. As with the rest of the APEX® range, the cap and tube are manufactured from the same materials, meaning both the cap and tube will expand and contract at the same rate in response to temperature changes (e.g. during thawing or freezing), minimising the possibility of leakage.



A range of coloured caps or natural caps that can be used with cap inserts enables effective colour coding for your samples.



CP5326 (representative image)

'White Label' Microcentrifuge Tubes		
Catalogue Number	Description	Pack Size
<b>'White Label' Microcentrifuge Tubes, Non-sterile, Without Cap</b>		
CP5316WL	0.5ml Free-standing	1000
CP5314WL	1.5ml Conical	1000
CP5321WL	2.0ml Conical	1000
CP5328WL	1.5ml Free-standing	1000
CP5318WL	2.0ml Free-standing	1000
<b>'White Label' Microcentrifuge Tubes, Sterile, including Insert Compatible Cap</b>		
CP5317WL	0.5ml Free-Standing	500
CP5315WL	1.5ml Conical	500
CP5322WL	2.0ml Conical	500
CP5329WL	1.5ml Free-Standing	500
CP5320WL	2.0ml Free-Standing	500
<b>'White Label' Microcentrifuge Tubes, Sterile, Tethered Cap</b>		
CP5335WL	1.5ml Conical Tethered Cap	500
CP5339WL	1.5ml Free-Standing Tethered Cap	500

Caps for 'White Label' Microcentrifuge Tubes		
Catalogue Number	Description	Pack Size
CP5326N	Flat-Cap Natural (will not accept insert)*	1000
CP5325N	Screw-Cap Natural, Insert Compatible*	1000
CP3346R	Coloured Cap Insert - Red*	500

\*Other colours available. Please see our website.



CP5325N

CP3346

(representative image)

### Which range is best for me?

Feature	APEX® Range	APEX® 'White Label' Range
Volume Available	0.5, 1.5, 2.0ml	0.5, 1.5, 2.0ml
Spin Rating	20,000g	17,000g
Base Types	Conical and Free-Standing	Conical and Free-Standing
Colour Caps	Yes	Yes
Coloured Cap Inserts	No	Yes
Temperature Range	-90C to +121C	-90C to +121C
O-Ring Material	Ethylene / Polypropylene	Silicone
Amber Available	Yes (Please enquire)	No
Cap and Tube made of same material	Yes	Yes
Tethered Caps Available	Yes	No
DNase, RNase & DNA free	Yes	Yes
Label	No	Yes
95kPa Compliant	No	Yes

APEX® 'White Label' tubes are not compatible with APEX® 'SafeGrip' caps

## Screw-Cap Microcentrifuge Tubes

### APEX® 'Tamper-Evident' Screw-Cap Microcentrifuge Tubes

Ideal for all applications requiring a tamper-evident seal, the Alpha Laboratories range of APEX® 'Tamper-Evident' Screw Cap Microcentrifuge Tubes also has a multitude of benefits when used in your laboratory. They are ideal for freezer storage, boiling applications, centrifugation, etc. and will fit most standard microcentrifuge rotors.



When the cap is screwed onto the tube, the tamper-evident sealing ring is automatically placed. When unscrewed, the ring is detached from the cap and remains in its position, showing clearly that the tube was opened.

Both the caps and the tubes are manufactured from the same, durable polypropylene so will expand and contract at the same rate, offering a reliable seal.

Additional 'Tamper-Evident' caps are also available.

#### Key Features:

- Rated to 17,000g
- Temperature Range: -196C to +121C
- Silicone O-ring



#### 'Tamper-Evident' Screw-Cap Microcentrifuge Tubes

Catalogue Number	Description	Pack Size
<b>'Tamper-Evident' Screw-Cap Microcentrifuge Tubes and caps, non-sterile</b>		
TE5336	0.5ml Free-Standing Graduated	1000
TE5334	1.5ml Conical Graduated	1000
TE5341	2.0ml Conical Graduated	1000
TE5348	1.5ml Free-Standing Graduated	1000
TE5338	2.0ml Free-Standing Graduated	1000
<b>'Tamper-Evident' Screw-Cap Microcentrifuge Tubes with cap, loosely assembled, sterile</b>		
TE5317	0.5ml Free-Standing Non-Graduated	500
TE5322	2.0ml Conical Non-Graduated	500
TE5329	1.5ml Free-Standing Non-Graduated	500
TE5329WL	1.5ml Free-Standing Graduated	500
TE5320	2.0ml Free-Standing Non-Graduated	500

#### 'Tamper-Evident' Caps

Catalogue Number	Description	Pack Size
TE5326N	Tamper-Evident Cap	1000

## 5ml, 15ml and 50ml Centrifuge Tubes

There are three ranges of centrifuge tubes that are available from Alpha Laboratories. Our 5ml range is ideal for those in-between sample volumes where a 2ml microcentrifuge tube is too small but a 15ml tube is too large. SuperClear™ 15 and 50ml tubes are designed for more demanding molecular biology applications whilst the Apex 'Essential' range offers excellent value for everyday centrifugation and storage.

### 5ml Centrifuge Tubes

When your sample size is somewhere between 2 and 5ml, the 5ml Conical Base Midi Centrifuge Tubes are the perfect intermediate volume solution. Featuring an easy-to-open, flat, frosted cap and a large frosted writing area, they ensure easy sample labelling and identification.

Midi Centrifuge tubes are 56.6mm in height and graduated at every 0.25ml for more accurate volume estimation. The tube diameter is 19mm, the same as standard 15ml centrifuge tubes, making them compatible with many standard centrifuge rotors. The tubes can be centrifuged to 21000 rcf.

Made from high grade polypropylene, they have undergone rigorous functional testing, ensuring their suitability for a wide variety of applications.

- Supplied non-sterile or sterile (e-beam irradiation)
- Can be autoclaved at 121C and 15psi for up to 20 minutes
- All tubes are certified RNase, DNase, DNA, Pyrogen and PCR Inhibitor free
- The shorter height of the tube provides increased protection against contamination as long pipette barrels do not need to be inserted into the tube when aspirating or dispensing samples
- Three colour options are available – natural, assorted colours and also amber tubes for use with light-sensitive samples
- The Midi Centrifuge Tubes are supplied in handy, resealable packs



#### 5ml Centrifuge Tubes

Catalogue Number	Description	Centrifuge Rating/RCF (g)	Pack Size
FT0050NT	Centrifuge Tube 5ml Natural Non-sterile	21,000	2x100
FT0050NTS	Centrifuge Tube 5ml Natural Sterile	21,000	4x50
FT0050AS	Centrifuge Tube 5ml Assorted Colours Non-sterile	21,000	4x50
FT0050AMS	Centrifuge Tube 5ml Amber Sterile	21,000	4x50

## SuperClear™ Centrifuge Tubes

SuperClear™ tubes are designed for more demanding molecular biology applications whilst the APEX® 'Essential' range offers excellent value for everyday centrifugation and storage.



SuperClear™ tubes are made from a unique non-cytotoxic medical grade resin that is clear and very durable, making it possible to spin these tubes at 20,000g for 50ml tubes and 17,000g for 15ml tubes.

They include large, white, solvent-resistant labelling areas and black, easy to read graduations.

The SuperClear tubes have an easy to label flat cap design that includes an integral sealing ring. The caps allow you to seal the tubes to an evaporation seal with a  $\frac{3}{4}$  turn for one-handed operation. A final additional  $\frac{1}{4}$  turn will seal them liquid tight.

SuperClear™ tubes are available in sterile fibre racks, and sterile or non-sterile bags.

All our sterile products use medical grade packaging and are radiation sterilised following a validated ISO 11137 method.

SuperClear centrifuge tubes also excel in their environmental performance. Made in waste-free moulds and printed without V.O.C. (volatile organic compound) pollutants these tubes are environmentally responsible.

- Certified DNA, DNase, RNase, endotoxin and pyrogen free
- Certified low in trace metals
- Can be stored at temperatures between -80C & +122C

### SuperClear™ 15ml and 50 ml Centrifuge Tubes

Catalogue Number	Description	Centrifuge Rating/RCF (g)	Pack Size
CT1110	50ml SuperClear Centrifuge Tube, Loose, Non Sterile	20,000	2 x 50
CT1120	50ml SuperClear Centrifuge Tube, Loose, Sterile	20,000	2 x 50
CT1140	50ml SuperClear Centrifuge Tube, Racked, Sterile	20,000	4 x 25
CT3076	15ml SuperClear Centrifuge Tube, Loose, Non Sterile	17,000	2 x 50
CT3078	15ml SuperClear Centrifuge Tube, Loose, Sterile	17,000	2 x 50
CT3083	15ml SuperClear Centrifuge Tube, Racked, Sterile	17,000	2 x 50

## APEX® 'Essential' 15ml and 50ml Centrifuge Tubes

APEX® 'Essential' 15ml and 50ml Centrifuge tubes are designed for all your routine centrifugation and storage needs. If you are looking for a dependable, high quality tube at a sensible price then our APEX® 'Essential' range is the perfect solution.

Equipped with a host of features for ease of use and peace of mind, these tubes are great performers.



The 50ml tube is available in a free-standing (skirted) format, which allows it to stand upright without the need for a rack. It is ideal for transporting samples since it is lab certified to the IATA 95kPa standard.

- Compatible with all popular centrifuges and storage racks
- Large white, solvent-resistant labelling area on tube
- Black, easy to read graduations that will not run or rub off
- Flat cap for easy top labelling
- Solvent-resistant, high clarity resin
- Sterile according to a validated and approved ISO method
- Freezable to -80C



### 'Essential' 15ml and 50 ml Centrifuge Tubes

Catalogue Number	Description	Centrifuge Rating/RCF (g)	Pack Size
CT1155	15ml 'Essential' Centrifuge Tube, Loose, Sterile	12,500	2 x 50
CT1150	50ml 'Essential' Centrifuge Tube, Loose, Sterile	12,500	2 x 50
CT1170	50ml 'Essential' Centrifuge Tube, Skirted, Loose, Sterile	10,000	2 x 50

## ProtectR® 15ml and 50ml CO<sub>2</sub> Resistant Centrifuge Tubes

ProtectR® Tube is the only container closure system engineered to be CO<sub>2</sub> resistant and prevent costly damage to molecular and cellular solutions when shipping or storing samples on dry ice.



### Prevent Acidification of Your Samples

Made of durable, high quality materials and fitted with an air-tight cap, ProtectR Tubes form a protective barrier, impermeable to CO<sub>2</sub>, keeping the sample pH stable and preventing acidification.

### IATA 95kPa Certified for Air Shipment

ProtectR tubes are IATA 95kPa certified for packaging and air transport of biological samples and meet the UN1845 requirements for shipment on dry ice.

The 95kPa certification requires containers to withstand, without leakage, an internal pressure producing a pressure differential of not less than 95kPa between the temperatures of -40C to +55C.

Since air transportation is typically the most rigorous transport condition, containers that meet IATA regulations are also suitable for other transport methods.

### Specifications

- Volume: Both 15ml and 50ml Tubes available
- Temperature Range: -80C to 110C
- Centrifuge: to 12,500g
- Sterility: Both Sterile and Non-Sterile formats available
- Autoclave: 122C at 15PSI
- Regulatory: CE IVD marked and CFR 21 USFDA Compliant
- Lot Certification: ATP, RNase, DNase, DNA, Endotoxin, Pyrogen free. Also low in trace metals
- Transportation: IATA 95kPa certified
- IntegraPack: 10 packs of 10 tubes (supplied in 2 sleeves of 5 packs)



### ProtectR® 15ml and 50 ml Centrifuge Tubes

Catalogue Number	Description	Centrifuge Rating/RCF (g)	Pack Size
CT5015	15ml ProtectR Centrifuge Tube, Non Sterile	12,500	2 x 5 x 10
CT5015S	15ml ProtectR Centrifuge Tube, Sterile	12,500	2 x 5 x 10
CT5050	50ml ProtectR Centrifuge Tube, Non Sterile	12,500	2 x 5 x 10
CT5050S	50ml ProtectR Centrifuge Tube, Sterile	12,500	2 x 5 x 10

## ProtectR® Tubes Special Features

**Airtight, leak-resistant caps prohibit CO<sub>2</sub> from entering the tube's headspace**

**Patented, extra large, smudge-resistant writing panel**

**Max Freeze Indicator**

**Easy-to-read graduations & reverse scale**

**IATA 95 kPa certification for shipping**

**Thick, medical grade resin withstands breakage when frozen. Samples in ProtectR® Tubes should be frozen prior to dry ice exposure**

**Ideal vessel for primary & secondary containment when shipping on dry ice**  
*(if used in accordance with UN3373 regulations and packaging instruction P650)*

### ProtectR® Tube Quality & Compliance

- ATP FREE
- RNase/DNase FREE
- Non-Pyrogenic Endotoxin Free
- Certified Low Trace Metals
- Medical Grade Resin and Plastic USP Class II
- CFR 21 USFDA COMPLIANT
- CE IVD



## Cryogenic Vials

Designed for safe, ultra-low temperature storage, Alpha has three ranges of CE marked cryogenic storage vials.



All products in this range are certified free from RNase, DNase, pyrogens and DNA. Alpha Laboratories' cryogenic vials come in either free-standing or round-bottom base designs.

- **Strong vial and cap** – a special grade of polypropylene, chosen for its consistent strength, is used to make all our vials. As a result, both vial and cap can withstand the harsh -196C temperature of vapour phase liquid nitrogen.  
*Please note that they are not designed for use in the liquid phase.*

- **Secure seal** – the cap and tube are made from the same material so with temperature change, they shrink and expand in unison. Tested leakproof to 95kPa.
- **Fast opening/closing** – 1¼ turns is all that is required to close the cap securely. This is important when large quantities of vials are being used because it saves time and means there is less chance of the cap not being closed securely.

- **Simple one-handed operation** – all free-standing vials, when used with a workstation, enable you to unscrew vials with one hand.

- **Sterile** – all vials are gamma irradiated to ensure absolute sterility.

sterile

- **Certified free from RNase, DNase, Pyrogens, human DNA and metals**



- **Clear graduations** – at 100µl intervals to facilitate reading of your sample volume.

- **Large white marking area** – for sample labelling and identification.

- **Free-standing and locking base** – stand the vials on the bench or use them one-handed in a workstation.

- **Supplied in tamper-evident, resealable bag** – clean and sterile.

- **Cap insert** – available in 11 different colours. Perfect for colour coding.

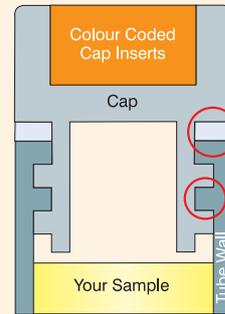


*Not compatible with LW3439.*

Coloured Cap Inserts		
Catalogue Number	Description	Pack Size
LW3339B	Cryogenic Vial Cap Insert, Blue	500
LW3339G	Cryogenic Vial Cap Insert, Green	500
LW3339V	Cryogenic Vial Cap Insert, Violet	500
LW3339R	Cryogenic Vial Cap Insert, Red	500
LW3339W	Cryogenic Vial Cap Insert, White	500
LW3339Y	Cryogenic Vial Cap Insert, Yellow	500
LW3339O	Cryogenic Vial Cap Insert, Orange	500
LW3339P	Cryogenic Vial Cap Insert, Pink	500
LW3339GR	Cryogenic Vial Cap Insert, Grey	500
LW3339AS	Cryogenic Vial Cap Insert, Assorted	500

## 'The Classic' Range

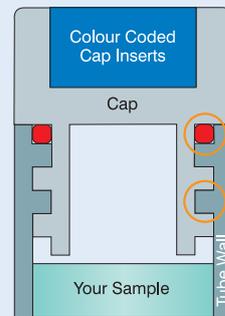
– designed for basic security



Silicone sealing washer compressed on three sides  
Internal thread on tube holds the cap tightly in place

## 'Feel the Seal' Range

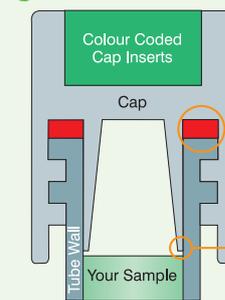
– ideal for storage of large batches



Silicone O-ring secures tightly against inner tube wall  
Internal thread on tube holds the cap tightly in place

## 'Ultimate Security' Range

– dual washer and flange for the highest level of sample security



Silicone sealing washer compressed on all four of its sides  
Internal flange secures the seal and reduces the risk of contaminating the cap

## 'High Capacity' Range

– ideal for larger samples



## Internally Threaded – with Silicone Washer

Designed to improve safety compared with standard screw cap microcentrifuge tubes. 'The Classic' uses a square section washer that compresses tightly between the cap and top of the tube wall.



### Free-standing or Round Bottom Bases



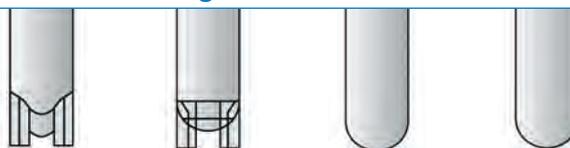
Catalogue Number	LW3332	LW3334	LW3335	LW3336	LW3337	LW3338
Working Volume (ml)	1.0	2.0	2.0	3.6	3.6	5.0
Size (mm)	12.5 x 41	12.5 x 49	12.5 x 48	12.5 x 70	12.5 x 72	12.5 x 90
Free-Standing	●	●			●	
Round Bottom			●	●		●
Pack Size	100	100	100	100	100	100

## Internally Threaded – with Silicone O-Ring

It's true, you really can feel when the cap is securely closed. Ideal when storing important samples in large batches.



### Free-standing or Round Bottom Bases



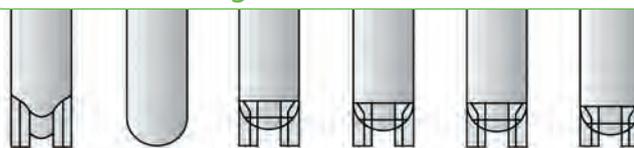
Catalogue Number	LW3532	LW3534	LW3535	LW3538
Working Volume (ml)	1.2	2.0	2.0	5.0
Size (mm)	12.5 x 41	12.5 x 49	12.5 x 48	12.5 x 90
Free-Standing	●	●		
Round Bottom			●	●
Pack Size	100	100	100	100

## Externally Threaded – with Flange/Washer Combination

This unique combination of square section sealing washer and internal cap flange provides the highest level of security for your most precious samples.



### Free-standing or Round Bottom Bases



Catalogue Number	LW3432	LW3435	LW3434	LW3436	LW3437	LW3438
Working Volume (ml)	1.0	1.8	1.8	3.0	3.8	4.5
Size (mm)	12.5 x 42	12.5 x 47	12.5 x 49	12.5 x 71	12.5 x 77	12.5 x 91
Free-Standing	●		●	●	●	●
Round Bottom		●				
Pack Size	100	100	100	100	100	100

## Externally Threaded – High Capacity

Our jumbo, free-standing, externally threaded cryovials have a working volume of 9.5ml. They are gamma irradiated and certified free from RNase, DNase, Pyrogens and Human DNA. Featuring volume graduations and a large labelling area, these tubes offer a high level of security for your valuable samples.



### Free-standing Base



Catalogue Number	LW3439
Working Volume (ml)	9.5
Size (mm)	17 x 84
Free-Standing	●
Pack Size	2 x 50

## Round Bottom Tubes

For reliable performance and dependable quality choose Alpha Laboratories non-sterile, rimless test tubes.

- Available in a variety of sizes and volumes from 2ml to 12ml
- High chemical compatibility
- Centrifuge up to 3000g

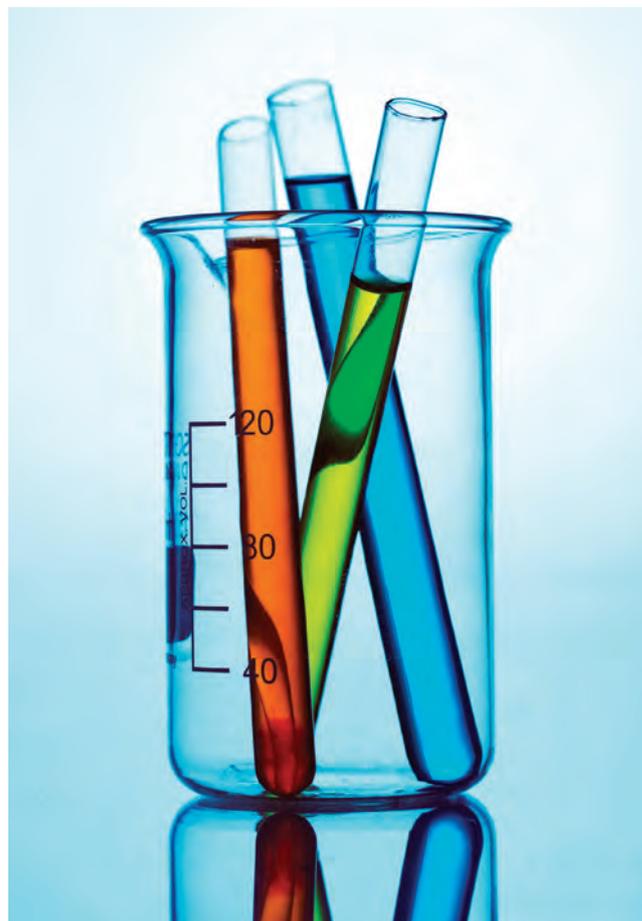
### Clear Polystyrene Tubes

Manufactured from high-clarity polystyrene for applications requiring high visibility of contents.

Suitable for use in cell culture work and can be used with many aqueous solutions, mild bases and weak acids. They should not be used with volatile chemicals. Polystyrene test tubes are suitable for use within a temperature range of -10C to 70C.

### Polypropylene Tubes

Manufactured from tough, opaque polypropylene for demanding applications that require a more robust tube with greater chemical resistance, higher centrifugation tolerance and higher temperature stability. They are suitable for use within a temperature range of -10C to 121C and can be autoclaved.



### Polystyrene Tubes

Catalogue Number	Description	Pack Size
TU11042PS	Test Tube Round Bottom PS 11x42mm 2ml	1500
TU12055PS	Test Tube Round Bottom PS 12x55mm 4ml	1000
TU12075PS	Test Tube Round Bottom PS 12x75mm 4.5ml	1000
TU13075PS	Test Tube Round Bottom PS 13x75mm 5ml	1000
TU13100PS	Test Tube Round Bottom PS 13x100mm 8ml	400
TU16100PS	Test Tube Round Bottom PS 16x100mm 12ml	1000

### Polypropylene Tubes

Catalogue Number	Description	Pack Size
TU12055PP	Test Tube Round Bottom PP 12x55mm 4ml	1000
TU12075PP	Test Tube Round Bottom PP 12x75mm 4.5ml	1000
TU13075PP	Test Tube Round Bottom PP 13x75mm 5ml	1000
TU13100PP	Test Tube Round Bottom PP 13x100mm 8ml	500
TU16100PP	Test Tube Round Bottom PP 16x100mm 12ml	6x200

## Vacu-Re-Caps

Stretchable closure used to re-seal blood or other types of tubes.



Vacu-Re-Caps		
Catalogue Number	Description	Pack Size
AP0025	12mm Vacu-Re-Caps, Natural	1000
AP0121B	12mm Vacu-Re-Caps, Blue	1000
AP0121G	12mm Vacu-Re-Caps, Green	1000
AP0121Y	12mm Vacu-Re-Caps, Yellow	1000
AP0121P	12mm Vacu-Re-Caps, Purple	1000
AP0121R	12mm Vacu-Re-Caps, Red	1000
AP0021	15.2mm Vacu-Re-Caps, Natural	1000
AP0125R	15.2mm Vacu-Re-Caps, Red	1000
AP0125G	15.2mm Vacu-Re-Caps, Green	1000
AP0125P	15.2mm Vacu-Re-Caps, Purple	1000

## Tube Volume Adaptors



Polypropylene tube insert to convert the volume of a 12mm diameter tube to 1.5ml or 3.0ml.

- Ideal for paediatric samples

Tube Volume Adaptors		
Catalogue Number	Description	Pack Size
AP0024	1.5ml Plastic Insert for 12mm tube	4000
AP0022	3.0ml Plastic Insert for 15.2mm tube	1500

## Polyethylene Plug Caps

Plug caps offer a leak resistant seal for test tubes and other tubes. They are made from polyethylene and have a ribbed surface with high grip for easier handling. They have 2 sealing ribs for a firm seal with the tube (except CP3212 which is a flanged plug cap). These plug caps are supplied natural in colour and are non-sterile.

- Manufactured from polyethylene
- Ribbed surface to improve grip
- Double sealing ribs prevent leaking
- Suitable for sealing tubes of diameter 12mm to 16mm



Polyethylene Plug Caps		
Catalogue Number	Description	Pack Size
TU1200	Cap for 12mm Diameter Tube	1000
TU1300	Cap for 13mm Diameter Tube	2500
TU1600	Cap for 16mm Diameter Tube	1000
CP3212	Flanged Plug Cap for 12mm Diameter tube, Green	1000

## Containers for Sample Collection, Transport, Storage and Processing

### EveryDay Containers

95kPa tested 20ml and 60ml sample containers for the safe and efficient collection, storage and transport of a wide range of samples. The range includes a variety of HDPE colour caps and clear polypropylene jars available to order separately.

- Easy sample identification with a range of colourful caps
- 95kPa leak-proof tested, making them suitable for road transport
- Made from durable materials with high chemical resistance
- Easy-Grip cap design for easier closing and opening of containers
- Suitable for everyday use in any laboratory

95kPa



#### EveryDay Containers

Catalogue Number	Description	Pack Size
SC5520SJ	Specimen Container Jar 20ml Clear	500
SC5520CO	Specimen Container Cap 20ml Orange	500
SC5520CP	Specimen Container Cap 20ml Purple	500
SC5520CY	Specimen Container Cap 20ml Yellow	500
SC5520CR	Specimen Container Cap 20ml Red	500
SC5520CW	Specimen Container Cap 20ml White	500
SC5560SJ	Specimen Container Jar 60ml Clear	500
SC5560CO	Specimen Container Cap 60ml Orange	500
SC5560CP	Specimen Container Cap 60ml Purple	500
SC5560CY	Specimen Container Cap 60ml Yellow	500
SC5560CR	Specimen Container Cap 60ml Red	500
SC5560CW	Specimen Container Cap 60ml White	500



### Aseptic 60ml Container PS/PE

- Manufactured from virgin non-cytotoxic polystyrene
- CE marked in accordance with the European directive 98/79/EC
- For *in vitro* use only
- Unique leak-tight cap ensures exceptional leak-proof seal



60ml Container PS/PE		
Catalogue Number	Description	Pack Size
IR1382	60ml Container PS/PE No Label Plastic Cap	300
IR1381	60ml Container PS/PE Printed Label Plastic Cap	300
IR1380	60ml Container Plain Label Plastic Cap	300

### Aseptic Container PS/Metal Cap

- Ideal for sample containment
- CE marked in accordance with the European Directive 98/79/EC
- For *in vitro* use only
- Aseptically manufactured under cleanroom conditions (class 7 ISO 14644) to exclude microbiological contamination
- Manufactured from virgin polystyrene
- All materials are non-cytotoxic



#### Aseptic Container PS/Metal Cap

Catalogue Number	Description	Pack Size
IR1400	150ml Container No Label, Metal Flow Seal Cap	120
IR1405	150ml Container Plain Label, Metal Flow Seal Cap	120
IR1410	250ml Container No Label, Metal Flow Seal Cap	50
IR1415	250ml Container Plain Label, Metal Flow Seal Cap	50
IR1420	250ml Container Printed Label, Metal Flow Seal Cap	50

## Sample Containers

Once collected, samples need to be stored and transported securely without the risk of contamination or leakage.

Alpha offers a wide range of solutions. These include the 30ml universal tubes, widely used in UK hospitals and clinics for collection and/or storage of urine or faecal samples and 7ml Bijou containers for storage and transportation of low volume biological samples



### Quality and Versatility

- Manufactured from virgin polystyrene and polypropylene
- All materials are non-cytotoxic
- For in vitro use only
- Secure screw cap ensures leak-free performance
- Variety of label formats
- Manufactured under clean room conditions and sterile where stated
- CE marked in accordance with the IVD Directive 98/79/EC



## 30ml Universal Containers

Universal containers are aseptically manufactured from clear virgin polypropylene or polystyrene. All have a conical base and are self-standing. For stool collection there are options with a sampling scoop/spoon attached to the cap, or for urine collection there is an option with Boric Acid. Made to the highest standards and demanding specifications for the most critical applications. Manufactured under clean room conditions. All materials are non-cytotoxic.

### Universal Containers - Polypropylene Tube

Catalogue Number	Description	95kPa	Material * (Tube/Cap)	Label	Sterility	Pack Size	Inner Pack
CW3840	30ml Universal	Yes	PP/PP	Printed	Aseptic	400	No
CW3850	30ml Universal with Boric Acid	Yes	PP/PP	Printed	Aseptic	400	No
CW3830	30ml Universal with Spoon	Yes	PP/PP	Printed	Aseptic	400	No
IR1385	30ml Universal	Yes	PP/PP	No	Aseptic	400	50

### Universal Containers - Polystyrene Tube

Catalogue Number	Description	95kPa	Material * (Tube/Cap)	Label	Sterility	Pack Size	Inner Pack
CW3880	30ml Universal	No	PS/PP	No	Aseptic	400	No
CW3890	30ml Universal	No	PS/PP	Plain	Aseptic	400	No
IR1390	30ml Universal	Yes	PS/PP	Printed	Aseptic	400	50
CW3820	30ml Universal with Boric Acid	Yes	PS/PP	Printed	Aseptic	400	No
CW3810	30ml Universal with Spoon	No	PS/PP	Printed	Aseptic	400	No
RC2145	30ml Universal with Spoon	No	PS/PP	No	Aseptic	400	No



Containers for Sample Collection, Processing and Storage

## Bijou Containers

Bijou containers offer a wide variety of uses across research, pharmaceutical and clinical laboratories.

For preservation of urine samples a bijou containing Boric Acid is available.

- Ideal for small volume samples
- Manufactured under clean room conditions
- Manufactured from virgin non-cytotoxic polystyrene
- CE marked in accordance with the European directive 98/79/EC
- For *in vitro* use only
- Leak-proof tested in accordance with BS EN 14254 Annex D



### Bijou Containers

Catalogue Number	Description	Material * (Tube/Cap)	Label	Sterility	Pack Size	Inner Packs
RC2122	7ml Bijou Screw Cap Container	PS/PE	Plain	Aseptic	700	No
RC2124	7ml Bijou Screw Cap Container w/ Boric Acid	PS/PE	Plain	Aseptic	700	No
RC2120	7ml Bijou Screw Cap Container	PS/PP	No	Aseptic	700	No

\*PS = Polystyrene, PP = Polypropylene, PE = Polyethylene

## Transport Tubes



These transport tubes are ideal for sample collection and transport. Manufactured from virgin polypropylene, they are free-standing with an internal conical base, printed graduations and a frosted writing area. The green screw cap is supplied with the tube and is manufactured from polyethylene.

The tubes are ideal for any sample transport and collection. They are IATA 95kPa compliant for the storage and transport of a wide range of solid or liquid specimens.

These sample containers are suitable for sample transport according to UN3373 packaging instruction when combined with appropriate secondary and tertiary packaging such as Alpha Laboratories SpeciSafe range.

The tubes are lot certified free of DNA, DNase, RNase, ATP and endotoxins. They are autoclavable at 121C and can be used for freezing samples.

### Transport Tubes

Catalogue Number	Description	Pack Size
TT1050	5ml Transport Tube, Screw Cap	2 x 500
TT1050S	5ml Transport Tube, Screw Cap, Sterile	10 x 50
TT1100	10ml Transport Tube, Screw Cap	2 x 500
TT1100S	10ml Transport Tube, Screw Cap, Sterile	10 x 50



## Cleaning

### KIMCARE Medical Wipes

A high hygiene wiper. This soft, strong and absorbent wipe is designed for the nursing and healthcare industries. Also suitable for general laboratory and science areas. Ideal for cleaning slides, lenses and many other applications.



#### Medical Wipes

Catalogue number	Description	Pack Size
X710003	KIMCARE Medical Wipes 18.6x10.8cm 80 per box	66 boxes

## Parafilm 'M'

Perfect for wrapping around flasks, beakers and tubes, this tough, pliable sealing film possesses excellent adhesive properties and high resistance to alcohols, aqueous acids and alkalis.



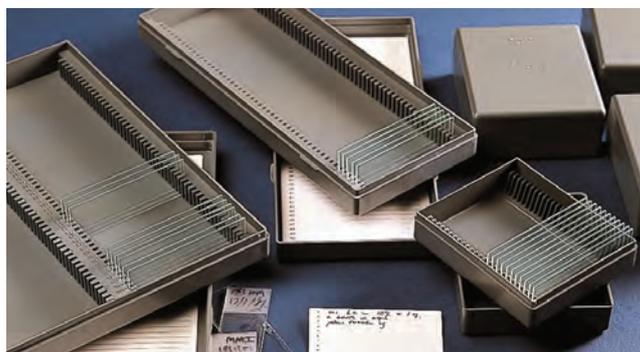
#### Parafilm 'M'

Catalogue Number	Description	Size	Pack Size
WS5000-10	Parafilm 'M', Non-sterile	38m x 10cm	1 Roll

## Micro Slide Boxes

Microslide boxes are designed for use with standard 76cm x 26cm microscope slides. They are manufactured from high impact polystyrene which is virtually unbreakable. A lid is supplied with each box for the safe storage of your glass or plastic slides. The lid is completely removable for easy access.

Each of the slots are well spaced for easy handling of the slides. Each slot is clearly numbered and can be cross-referenced against a corresponding index card.



#### Micro Slide Boxes

Catalogue number	Description	Pack Size
0027600	Micro slide boxes 25 places	4
0027800	Micro slide boxes 100 places	1

## Culture Tools

Great value, colour-coded culture tools in smooth plastic. Free of lubricants so no risk of contamination.

Supplied sterile.



#### Culture Tools

Catalogue number	Description	Pack Size
CS0010	Cell Spreader L-Shape Blue 1/PeelWrap, Sterile (EO)	500
CS0050	Cell Spreader L-Shape White 5/PeelWrap, Sterile (IR)	80x5
IN2010	Innoculation Loop 1µl Polystyrene, 20/Ziplock Bag, Flexible, Light Green, Sterile (IR)	50x20
IN2020	Innoculation Loop 1µl Polystyrene, 20/Ziplock Bag, Rigid, Dark Green, Sterile (IR)	50x20
IN2030	Innoculation Loop 10µl Polystyrene, 20/Ziplock Bag, Flexible, Light Blue, Sterile (IR)	50x20
IN2040	Innoculation Loop 10µl Polystyrene, 20/Ziplock Bag, Rigid, Dark Blue, Sterile (IR)	50x20
IN2050	Innoculation Needle Plastic Hard, 20/Ziplock Bag, Violet, Sterile (EO)	50x20

## Consumables for Sample Processing

### Petri Dishes

Petri Dishes are routinely used by microbiologists to culture micro-organisms on solid media. All types are aseptically manufactured under clean room conditions (class 7 ISO14644) to exclude microbiological contamination.

Petri Dishes are available in three different sizes with single, triple or non-vented formats :-

- Triple vented - aids gaseous exchange and are ideally suited for short term work.
- Single vented - limits gaseous exchange, minimises evaporation and dehydration making them well suited for long term work.
- Non-vented - most suitable for anaerobic and long term work.

Other sizes available - please see our website.

#### 90mm Petri Dishes

These 90mm petri dishes are manufactured from virgin polystyrene in mirror finished moulds to ensure the highest optical clarity. They are produced and tested in accordance with the BS611 part 2 standard which includes stringent dimensional controls.

- Ideal for use in automatic plate pourers

#### 30mm Petri Dish

Ideal for use when savings in media or incubator space are required.

#### 100mm Square Petri Dish

A non-compartmentalised dish which is ideal for antibiotic sensitivity testing when a large surface area and very flat base are required.



#### 90mm Petri Dishes

Catalogue Number	Description	Aseptically produced	Terminally sterilised	Pack Size
IR1370	90mm Non-Vented Petri Dish	Yes	No	500
RC2270	90mm Single Vent Petri Dish	Yes	No	20 x 25
RC2260	90mm Triple Vent Petri Dish	Yes	No	20 x 25

#### 30mm Petri Dish

Catalogue Number	Description	Aseptically produced	Terminally sterilised	Pack Size
IR1375	30mm Triple Vent Petri Dish	Yes	No	800

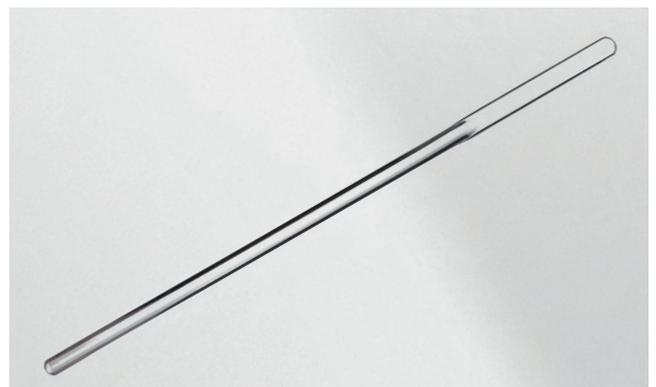
#### 100mm Square Petri Dish

Catalogue Number	Description	Aseptically produced	Terminally sterilised	Pack Size
IR1365	100mm Square Single Vent Petri Dish	Yes	No	120

### Spatulas

These polystyrene spatulas with a flattened paddle at one end, are great for measuring out and mixing small amounts of reagent and chemicals. Highly resistant and virtually unbreakable, they have a million and one uses throughout the lab!

Spatulas		
Catalogue Number	Description	Pack Size
US0120	Spatula 120 x 3mm	500



## Antistatic Weighing Dishes

The Alpha polystyrene weighing dishes will resist diluted acids, aqueous solutions, alcohols and bases. They are ideal for many applications such as weighing, dispensing or storing. They are safe, contaminant-free, biologically inert, economical containers for weighing liquid or powdered samples in the laboratory. Flat bottoms ensure perfect stability on counters. They have a smooth surface providing accurate pour-outs with minimal sample loss and facilitating weighing of static-prone samples.

The Alpha dishes can also be used as quick freeze trays for sample material, discard trays for broken ampoules, or mixing trays for small batches. They will also withstand temperatures up to 80C.

### Antistatic Square Weighing Dishes

Catalogue Number	Volume (ml)	Description (mm)	Pack Size
DA2501	10	41 x 41 x 8 H	500
DA2502	100	89 x 89 x 25 H	500
DA2503	330	140 x 140 x 25 H	500

### Antistatic Hexagonal Weighing Dishes

Catalogue Number	Volume (ml)	Top I.D. (mm)	Bottom I.D. (mm)	Pack Size
DA2521	20	38	25	500
DA2522	50	64	51	500
DA2523	200	102	76	500

### Antistatic Pour Boats

Catalogue Number	Volume (ml)	Description (mm)	Pack Size
DA2511	20	80 x 41 x 8 H	250
DA2512	140	133 x 76 x 25 H	250
DA2513	270	197 x 121 x 25 H	250



## Cell Scraper

Non-pyrogenic cell scraper made from polyethylene suitable for use with a variety of cell culture vessels, dishes and cell culture clusters for quick removal of cell layers. Cell scrapers avoid the use of trypsin which could alter the surface proteins of the cells.

- Available in 250mm handle size
- The uniquely designed handle and blade reduce cell damage during the harvesting process
- Pivoting blade makes precise cutting and scraping movements
- Pre-sterilised and individually wrapped in peel-open packaging



### Cell Scraper

Catalogue Number	Description	Pack Size
CS1115	Cell Scraper, 18mm Blade, Sterile	200

## Great Value General Purpose Filtration

Sourced from high quality European mills, Alpha Laboratories' filter papers are an ideal replacement for traditional filter paper brands.

All our filter papers are tested for basic weight, thickness, airflow and mechanical burst strength, giving you assurance of quality together with great value for money.

- General purpose grade
- Direct equivalent to popular brands
- Medium filtration velocity
- Suitable for analytical purposes
- Available plain or pre-folded



**Grade 601 - Medium filtration velocity filter paper used for analytical work in laboratories. Equivalent to Whatman® No.1 and Schleicher and Schuell® 595**

Catalogue Number	Description	Pack Size
FL0001PK	42.5mm Qualitative Filter Paper Grade 601	10 x 100
FL0002PK	47mm Qualitative Filter Paper Grade 601	10 x 100
FL0003PK	55mm Qualitative Filter Paper Grade 601	10 x 100
FL0004PK	70mm Qualitative Filter Paper Grade 601	10 x 100
FL0005PK	85mm Qualitative Filter Paper Grade 601	10 x 100
FL0006PK	90mm Qualitative Filter Paper Grade 601	10 x 100
FL0007PK	110mm Qualitative Filter Paper Grade 601	10 x 100
FL0008PK	125mm Qualitative Filter Paper Grade 601	10 x 100
FL0009PK	150mm Qualitative Filter Paper Grade 601	10 x 100
FL0010PK	185mm Qualitative Filter Paper Grade 601	10 x 100
FL0011PK	240mm Qualitative Filter Paper Grade 601	10 x 100
FL0012PK	270mm Qualitative Filter Paper Grade 601	10 x 100
FL0013PK	320mm Qualitative Filter Paper Grade 601	10 x 100
FL0014PK	400mm Qualitative Filter Paper Grade 601	10 x 100
FL0015PK	500mm Qualitative Filter Paper Grade 601	10 x 100
FL0016PK	460x570mm Qualitative Filter Paper Grade 601	10 x 100

**Grade 113 - Medium filtering - Suitable for fast filtration of liquid with fine particles. Equivalent to Whatman® No.2 and Schleicher and Schuell® 593**

Catalogue Number	Description	Pack Size
FL0100PK	125mm Pre-folded Qualitative Filter Paper Grade 113P	10 x 100
FL0101PK	150mm Pre-folded Qualitative Filter Paper Grade 113P	10 x 100
FL0102PK	185mm Pre-folded Qualitative Filter Paper Grade 113P	10 x 100
FL0103PK	240mm Pre-folded Qualitative Filter Paper Grade 113P	10 x 100

## Membrane Filters

- Polycarbonate membranes
- 0.22µm and 0.45µm pore size sizes
- 25mm and 47mm diameter
- Non-sterile
- Packs of 100 filters



### Membrane Filters

Catalogue Number	Description	Pack Size
FL0110	25mm diameter 0.22µm pore size Polycarbonate Membrane Filter	100
FL0111	47mm diameter 0.22µm pore size Polycarbonate Membrane Filter	100
FL0112	25mm diameter 0.45µm pore size Polycarbonate Membrane Filter	100
FL0113	47mm diameter 0.45µm pore size Polycarbonate Membrane Filter	100

## Syringe Filters

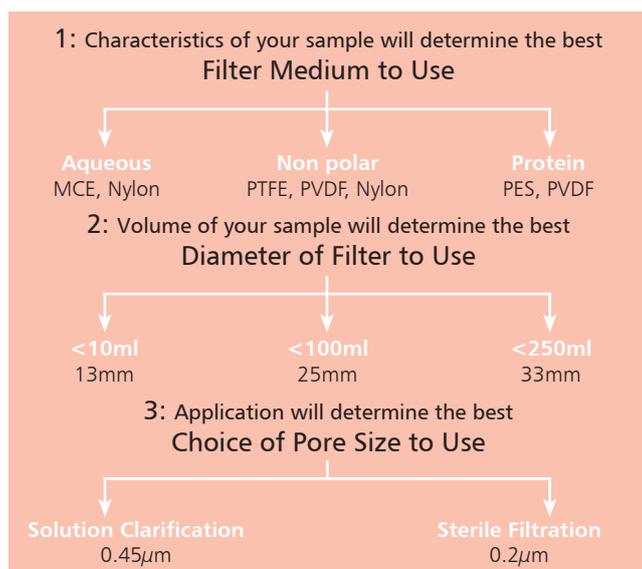
- 0.2µm and 0.45µm pore size
- 13, 25 and 33mm diameter
- Heat-sealed polypropylene housing – no glue
- Sterile MCE, Nylon, PTFE, PVDF and PES membranes
- 50x individually-wrapped, sterile

Syringe filters provide an efficient method for filtering small volumes of solutions to the sub-micrometer level. They are ideal for small volume clean-up prior to further analysis and help prolong HPLC column life by capturing and removing larger particles suspended in the sample.

A range of filter materials are available with specific qualities to provide the best filtration for your sample type. Choose cellulose, PES or nylon for aqueous solutions, PVDF for more aggressive solutions or PTFE for oils and air venting applications.

Widely used in many research and testing areas, syringe filters come in a range of media to suit the chemical composition of your sample. Standard pore sizes are 0.45µm and 0.2µm but others are available on request.

The Alpha Laboratories' range of disposable syringe filters are convenient and easy to use. They are available individually wrapped with a variety of membranes in a pure, polypropylene, heat-sealed housing. They are ideal for numerous applications in pharmaceutical, environmental, biotechnology, food/beverage and agricultural testing laboratories.



NB. Mycoplasma and some viruses may go through the 0.2µm filter

## Mixed Cellulose Ester (MCE) Syringe Filters

### Applications

- Filtration and tissue culture media and additives
- Clarification of biological fluids
- Filtration of proteins, enzymes and other aqueous solutions
- Gas particulate and bacteria filtration
- Offers higher protein binding than cellulose acetate
- For general purpose filtration of aqueous solutions

MCE Syringe Filters		
Catalogue Number	Description	Pack Size
FL0200S	13mm 0.2µm Cellulose Syringe Filter, Sterile	50
FL0201S	25mm 0.2µm Cellulose Syringe Filter, Sterile	50
FL0202S	33mm 0.2µm Cellulose Syringe Filter, Sterile	50
FL0203S	13mm 0.45µm Cellulose Syringe Filter, Sterile	50
FL0204S	25mm 0.45µm Cellulose Syringe Filter, Sterile	50
FL0205S	33mm 0.45µm Cellulose Syringe Filter, Sterile	50

## Nylon (NYL) Polyamide Syringe Filters

- Universal application for analytical procedures
- Filtration and clarification of solvents
- Filtration of aqueous and organic solvents in HPLC, GC or dissolution analysis
- Sterilisation and clarification of biological fluids, buffer solutions and tissue culture media
- For high protein binding and high dirt loading capacity

### Nylon Syringe Filters

Catalogue Number	Description	Pack Size
FLO206S	13mm 0.2µm Nylon Syringe Filter, Sterile	50
FLO207S	25mm 0.2µm Nylon Syringe Filter, Sterile	50
FLO208S	33mm 0.2µm Nylon Syringe Filter, Sterile	50
FLO209S	13mm 0.45µm Nylon Syringe Filter, Sterile	50
FLO210S	25mm 0.45µm Nylon Syringe Filter, Sterile	50
FLO211S	33mm 0.45µm Nylon Syringe Filter, Sterile	50

## Polytetrafluorethylene (PTFE) Syringe Filters

- Filtration of most organic solvents and extremely corrosive solutions
- Preparation of HPLC or GC samples
- Filtration of air and gases
- Non-aqueous base organic solvent filtration

### PTFE Syringe Filters

Catalogue Number	Description	Pack Size
FLO212S	13mm 0.2µm PTFE Syringe Filter, Sterile	50
FLO213S	25mm 0.2µm PTFE Syringe Filter, Sterile	50
FLO214S	33mm 0.2µm PTFE Syringe Filter, Sterile	50
FLO215S	13mm 0.45µm PTFE Syringe Filter, Sterile	50
FLO217S	33mm 0.45µm PTFE Syringe Filter, Sterile	50

## Polyethersulfone (PES) Syringe Filters

- Good for use in aqueous applications and biological samples
- Low binding to proteins and nucleic acid
- Tissue culture additive and media filtration
- Low affinity for proteins and extractable with substantially faster flow rates than PVDF

### PES Syringe Filters

Catalogue Number	Description	Pack Size
FLO224S	13mm 0.2µm PES Syringe Filter, Sterile	50
FLO225S	25mm 0.2µm PES Syringe Filter, Sterile	50
FLO226S	33mm 0.2µm PES Syringe Filter, Sterile	50
FLO227S	13mm 0.45µm PES Syringe Filter, Sterile	50
FLO228S	25mm 0.45µm PES Syringe Filter, Sterile	50
FLO229S	33mm 0.45µm PES Syringe Filter, Sterile	50

## Polyvinylidene fluoride (PVDF) Syringe Filters

- Filtration of most organic solvents and extremely corrosive solutions where maximising protein recovery is vital
- Extremely low protein-binding applications
- Gas and vapour filtration
- High thermal and high temperature filtration techniques

### PVDF Syringe Filters

Catalogue Number	Description	Pack Size
FLO218S	13mm 0.2µm PVDF Syringe Filter, Sterile	50
FLO219S	25mm 0.2µm PVDF Syringe Filter, Sterile	50
FLO220S	33mm 0.2µm PVDF Syringe Filter, Sterile	50
FLO221S	13mm 0.45µm PVDF Syringe Filter, Sterile	50
FLO222S	25mm 0.45µm PVDF Syringe Filter, Sterile	50
FLO223S	33mm 0.45µm PVDF Syringe Filter, Sterile	50



## Consumables for Sample Analysis

### pH Testing

Alpha Laboratories' great new, economical and diverse range of pH strips, papers and rolls is perfect for many applications in the laboratory, industry and the field. You'll pay less but without compromising on quality or convenience.

They have advantages over other methods of pH testing in that they do not require any additional equipment compared with liquid testing kits and digital meters. As a result, they are more portable, durable and easily replaced.

An immediate result is obtained by comparing the colour of the paper/strip with a chart to indicate the pH level.

- Instant pH readings
- Accurate for a wide range of routine pH testing
- Inexpensive
- Convenient and portable for field use
- Can be stored for two years, sealed and out of sunlight.

#### Paper Strips

- Supplied in books
- Available as pH and litmus paper

#### Paper Rolls and Refills

- Easy to use
- Economical
- Handy dispenser reel
- Available as pH, litmus and agent

### pH Test Strips

- Rigid plastic strips with four separate test zones
- Easy interpretation against a colour scale for unbeatable accuracy
- Non-bleed dye pads avoid solution contamination
- Lasting colour change even when left *in situ*

pH Test Strips		
Catalogue Number	Description	Pack Size
PH0100PK	pH-Fix 0-6.0 Indicator Sticks 6x85 mm	10 x 100
PH0101PK	pH 0-14 Indicator Sticks 6x80mm	10 x 100
PH0102PK	pH-Fix 0-14 Indicator Sticks 6x85mm	10 x 100
PH0103PK	pH-Fix 2.0-9.0 Indicator Sticks 6x85mm	10 x 100
PH0104PK	pH-Fix 4.5-10.0 Indicator Sticks 6x85mm CE IVD	10 x 100
PH0105PK	pH-Fix 7.0-14.0 Indicator Sticks 6x85mm	10 x 100
PH0106PK	pH-Fix 3.6-6.1 Indicator Sticks 6x85mm CE IVD	10 x 100
PH0107PK	pH-Fix 5.1-7.2 Indicator Sticks 6x85mm	10 x 100
PH0108PK	pH-Fix 6.0-7.7 Indicator Sticks 6x85mm	10 x 100
PH0109PK	pH-Fix 7.5-9.5 Indicator Sticks 6x85mm	10 x 100
PH0110PK	pH-Fix 7.9-9.8 Indicator Sticks 6x85mm	10 x 100
PH0111PK	pH-Fix 0.3-2.3 Indicator Sticks 6x85mm	10 x 100
PH0112PK	pH-Fix 1.7-3.8 Indicator Sticks 6x85mm	10 x 100
PH0113PK	pH-Fix 6.0-10.0 Indicator Sticks 6x85mm	10 x 100



### Universal pH Indicator Papers

- Filter paper impregnated with coloured pH indicators
- Available in convenient dispenser reels or economical refill rolls
- Rapid and precise readings using supplied colour scale

#### Universal pH Indicator Papers

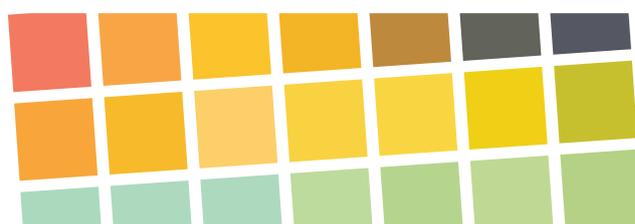
Catalogue Number	Description	Pack Size
PH0200PK	pH 1-14 Indicator Paper Refill, Roll	30 x 5m
PH0201PK	pH 0.5-5 Indicator Paper in a Reel	10 x 5m
PH0202PK	pH 9-13 Indicator Paper in a Reel	10 x 5m
PH0203PK	pH 1-11 Indicator Paper in a Reel	10 x 5m
PH0204PK	pH 1-14 Indicator Paper in a Reel	10 x 5m
PH0205PK	pH 5-9 Indicator Paper in a Reel	10 x 5m
PH0206PK	pH 4-7 Indicator Paper in a Reel	10 x 5m
PH0207PK	pH 6.4-8 Indicator Paper in a Reel	10 x 5m
PH0208PK	pH 8-10 Indicator Paper in a Reel	10 x 5m

### Universal Test Papers

- Rapid determination of pH, nitrites, free chlorine etc.
- Supplied in dispenser reels or booklets of 20 test strips
- Qualitative measurements

#### Universal Test Papers

Catalogue Number	Description	Pack Size
PH0209PK	Blue Litmus Paper in a Reel	10 x 5m
PH0210PK	Potassium Iodide Starch Paper in Reel	10 x 5m
PH0212PK	pH 1-11 Indicator Paper Refill, Roll	30 x 5m
PH0213PK	Red Litmus Paper in a Reel	10 x 5m
PH0215PK	pH 1-11 Indicator Paper Strips	100 x 20
PH0216PK	Blue Litmus Paper Strips	100 x 20
PH0217PK	Red Litmus Paper Strips	100 x 20



## Sample Cups



Made from optically clear, virgin polystyrene, Alpha's Sample Cups are suitable for use on chemistry and coagulation analysers.

- Comprehensive range to fit most analysers
- Caps available for re-sealing QT1500A, QT1502A, QT2110A & QT2120A

### Sample Cups

Catalogue Number	Description	Volume	Ø mm	Height mm	Pack Size
QT1500A	Technicon Sample Cup	1.5ml	13.8	22.6	1000
QT1502A	Technicon Sample Cup	2.0ml	13.7	24.9	1000
QT1520A	Technicon Sample Cup	4.0ml	17.26	37.9	1000
QT2110A	Centrifichem Sample Cup	0.25ml	13.7	16.4	1000
QT2120A	Gemsaec Sample Cup	0.50ml	13.55	24.5	1000
QT2600A	Hitachi Sample Cup	2.0ml	16.75	38	1000
QT1550A*	Push Cap	-	-	-	1000

\* Caps compatible with QT1500A, QT1502A, QT2110A & QT2120A only

## Counting Vials



Manufactured from clear polystyrene, these multi-purpose vials are suitable for blood counting or general dilutions. Clear vial with polyethylene cap.

- Caps included
- Clear polystyrene

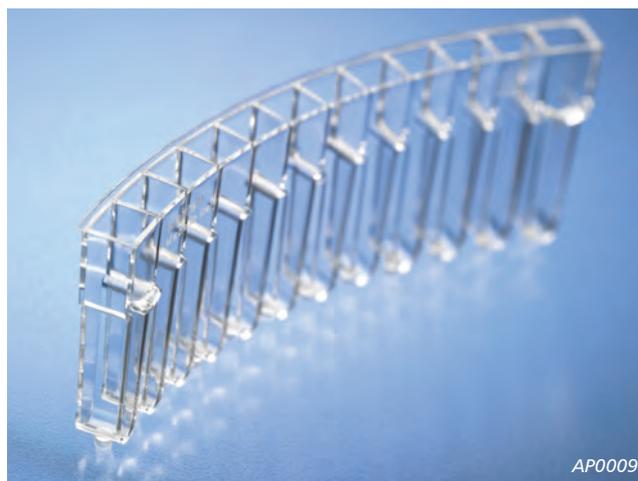
### Counting Vials

Catalogue Number	Description	Volume	Size H x Ø	Pack Size
CV4010	Coulter Counting Vial with cap, square based	25ml	60 x 32mm	2 x 250
CV4020	Counting Vial with cap	15ml	45 x 22mm	500

## Cobas Mira Consumables

Micro test tubes with tethered cap for use in Cobas Mira and Fara systems. Manufactured from polypropylene and available in a choice of colours.

Also available, Cobas Mira reaction cuvettes, supplied individually wrapped.



### Cobas Mira Consumables

Catalogue Number	Description	Pack Size
AP0001	Cobas Sample Cups, White	1000
AP0004	Cobas Sample Cups, Pink	1000
AP0009	Cobas Cuvette Segments	450

## Cuvettes

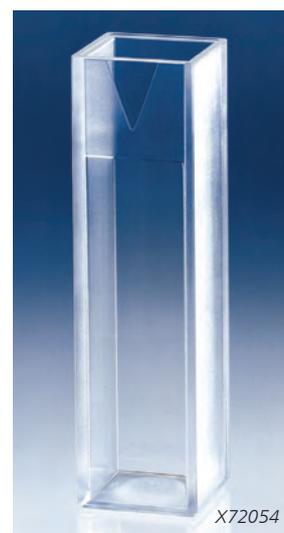
Disposable cuvettes for use in most standard spectrophotometers. Available in macro or semi-micro sizes for measuring UV.

■ Path length – 1 cm

### Disposable Cuvettes

Catalogue Number	Description	Pack Size
X72053	Semi-Micro Cuvette, UV, PMMA*, 1.5ml	1 x 100
X72054	Macro Cuvette, UV, PMMA*, 4.0ml	1 x 100

\*PMMA = Polymethyl methacrylate



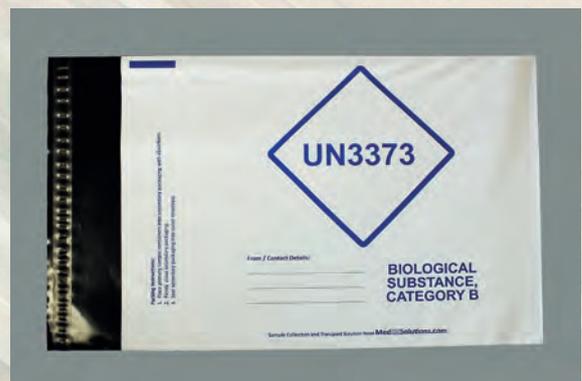
## SpeciSafe®

### Safe, Convenient and Economical Sample Transport Solution

When used with 95kPa tested tubes, SpeciSafe packs are compliant with UN3373 regulations.

A wide range of designs to fit commonly used specimen tubes including blood and urine tubes.

See pages 95-97 for more information.



## Sample Collection & UN3373 Packaging

Biological specimens fall under the Dangerous Goods Regulations since they may contain pathogens. Their transport is strictly controlled and it is a legal and mandatory requirement to comply with the regulations.

Samples such as blood, tissue, excreta, secreta etc. from humans or animals (which are not assigned to Category A, Infectious Substances), are considered to be Category B Biological Substances. These are assigned to UN3373 and must be packaged according to the Dangerous Goods IATA (air) or ADR (road) Packing Instruction 650 for transport.

Alpha Laboratories helps make compliance convenient, consistent and cost-effective with unique packaging solutions. If you are unsure about what you need for compliance please refer to our easy to follow guide on page 83.

Further support and resources can also be found at [www.UN3373.co.uk](http://www.UN3373.co.uk)

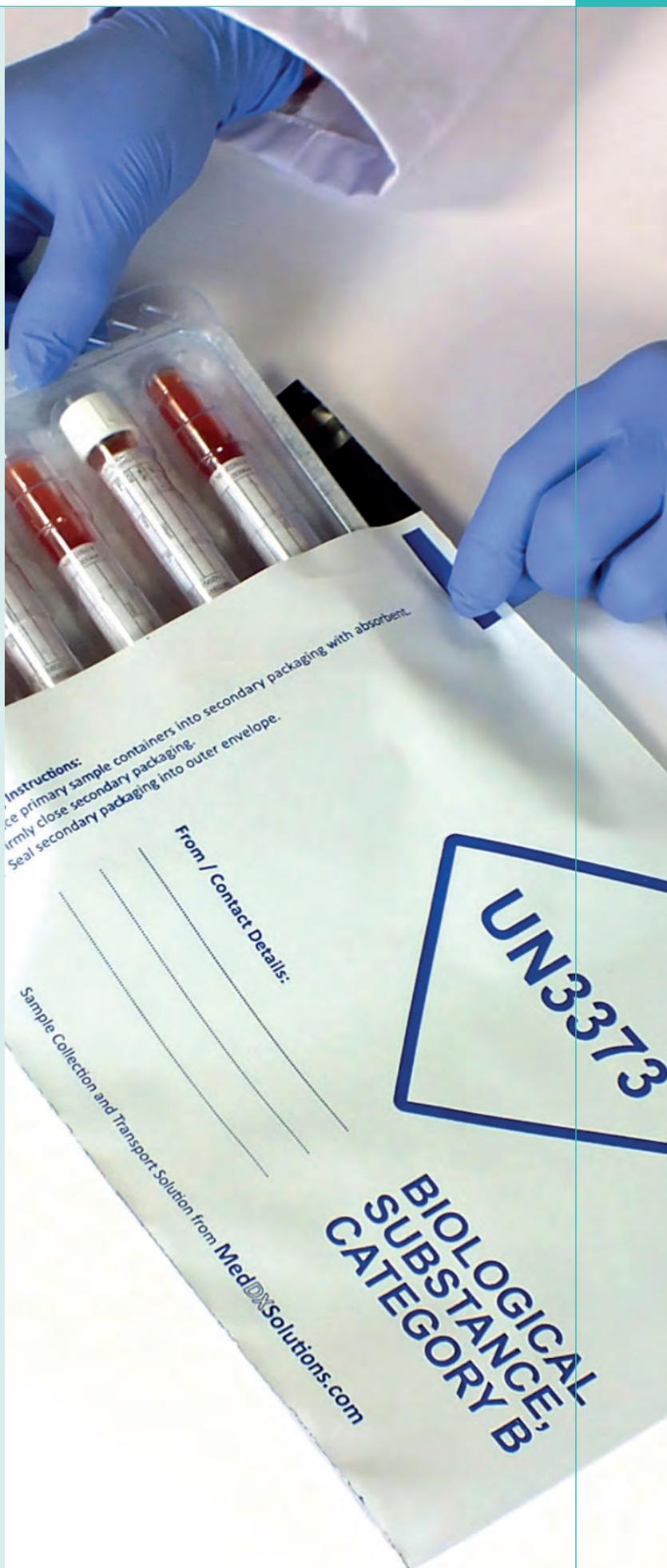
### What's New?

- PeeCanter
- Complete Kits for Sample Transport
- Full range of UN3373 Compliant Packaging Materials

### Contents

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## Understanding the Regulations

Visit our dedicated website [www.un3373.co.uk](http://www.un3373.co.uk) to access videos, brochures and guidelines.

### Key Requirements of UN3373 Regulations

Here you will find a brief overview of the classification of infectious substances, and the key requirements for transporting UN3373 Biological Substance, Category B.

Transport of any material which is considered hazardous in any way, can only be conducted in a manner which is compliant with the Dangerous Goods Regulations. This includes any materials derived from human or animal sources which has the potential to contain pathogenic organisms.

There are 2 main classes of infectious material:

#### Category A

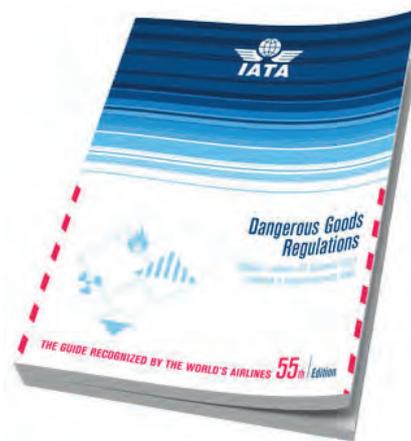
"An infectious sample which is transported, in a form that when exposure to it occurs, is capable of causing permanent disability, life-threatening or fatal disease in otherwise healthy humans or animals.

Infectious substances meeting these criteria which cause disease in humans or both in humans and animals must be assigned to UN2814. Infectious substances which cause disease only in animals must be assigned to UN2900."

Category A Infectious Substances are considered to be high consequence dangerous goods. Transport of these substances must only be carried out by fully trained and certified handlers. Please refer to the IATA or ICAO websites for further information.

#### Category B

An infectious substance which does not meet the criteria for inclusion in category A. Infectious substances in Category B must be assigned to UN3373 – Biological Substance, Category B.



### P650 Packaging Instruction Key Requirements for Road Transport (ADR)

Infectious substances assigned to Category B (UN3373) can be transported by specialised couriers or the Royal Mail, provided they comply with packaging instruction P650 as specified within the dangerous goods manuals. Always check with your transport provider before shipping.

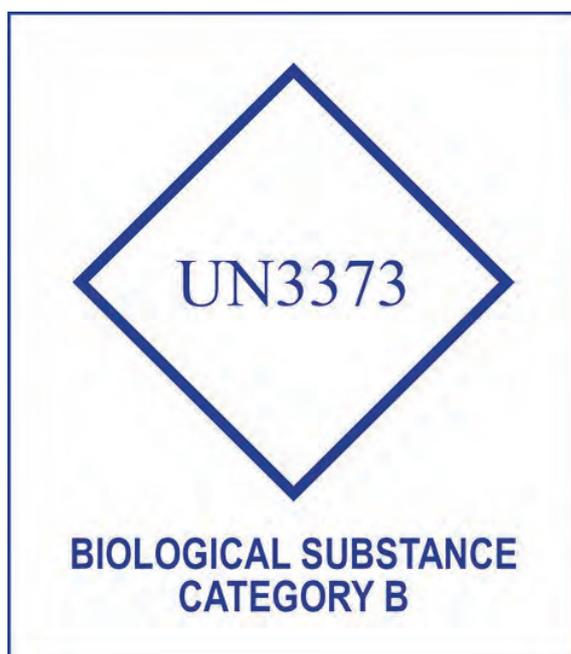
The packaging must be of good quality and strong enough to withstand the shocks and loadings normally encountered during transport. It must prevent any loss of contents that could occur due to vibration or changes in temperature, humidity or pressure. The P650 packaging instructions for liquid substances state:-

- a) The primary receptacle(s) shall be leak proof; (see point e)
- b) The secondary packaging shall be leak proof; (see point e)
- c) If multiple fragile primary receptacles are placed in a single secondary packaging, they shall be either individually wrapped or separated to prevent contact between them;
- d) Absorbent material shall be placed between the primary receptacle(s) and the secondary packaging. The absorbent material shall be in quantity sufficient to absorb the entire contents of the primary receptacle(s) so that any release of the liquid substance will not compromise the integrity of the cushioning material or of the outer packaging;
- e) The primary receptacle or the secondary packaging shall be capable of withstanding, without leakage, an internal pressure of 95 kPa (0.95 bar).
- f) The outer packaging or the secondary packaging shall be rigid and the entire packaging solution will have passed the 1.2m drop test.
- g) Suitable cushioning material shall be added to prevent too much movement within the package.
- h) The packaging should be clearly marked with the UN3373 diamond adjacent to the words "BIOLOGICAL SUBSTANCE, CATEGORY B"

## P650 Packaging Instruction Key Requirements for Air Transport (IATA)

The key differences compared to transport via road are **highlighted** for clarity

- a) The primary receptacle(s) shall be leak proof; (see point e)
- b) The secondary packaging shall be leak proof; (see point e)
- c) If multiple fragile primary receptacles are placed in a single secondary packaging, they shall be either individually wrapped or separated to prevent contact between them;
- d) Absorbent material shall be placed between the primary receptacles(s) and the secondary packaging. The absorbent material shall be in quantity sufficient to absorb the entire contents of the primary receptacle(s) so that any release of the liquid substance will not compromise the integrity of the cushioning material or of the outer packaging;
- e) The primary receptacle or the secondary packaging shall be capable of withstanding, without leakage, an internal pressure of 95 kPa (0.95 bar) **in the range of -40C and +55C**
- f) The outer packaging shall be **rigid** and the entire packaging solution will have passed the 1.2m drop test
- g) Suitable cushioning material shall be added to prevent too much movement within the package
- h) The packaging should be clearly marked with the UN3373 diamond adjacent to the words "BIOLOGICAL SUBSTANCE, CATEGORY B"
- i) The outer packaging must have one surface of minimum dimensions 10 x 10cm**
- j) Maximum volume per primary is 1L**
- k) Maximum volume per outer is 4L**
- l) The outer packaging must contain an itemised list of contents**



## Official UN3373 Regulation Resources

Alpha Laboratories advises all users to consult the official bodies responsible for safe transport of hazardous material. Visit our dedicated website [www.un3373.co.uk](http://www.un3373.co.uk) to access these links on line.

### IATA

The absolute rules for shipping Dangerous Goods by Air.  
[www.iata.org/whatwedo/cargo/dgr/Documents/infectious-substance-classification-DGR56-en.pdf](http://www.iata.org/whatwedo/cargo/dgr/Documents/infectious-substance-classification-DGR56-en.pdf)  
[www.iata.org/whatwedo/cargo/dgr/Documents/packing-instruction-650-DGR56-en.pdf](http://www.iata.org/whatwedo/cargo/dgr/Documents/packing-instruction-650-DGR56-en.pdf)



### International Civil Aviation Organisation (ICAO)

Technical Instructions for the Safe Transport of Dangerous Goods by Air  
[www.icao.int/publications/Documents/guidance\\_doc\\_infectious\\_substances.pdf](http://www.icao.int/publications/Documents/guidance_doc_infectious_substances.pdf)



### Department for Transport, HSE, Maritime and Coastguard Agency and Civil Aviation Authority

Transport of infectious substances UN2814, UN2900 and UN3373  
[https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment\\_data/file/527069/dangerous-goods-guidance-note-17.pdf](https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/527069/dangerous-goods-guidance-note-17.pdf)



### World Health Organisation

Transport of Infectious Substances  
[www.who.int/ihr/publications/who\\_hse\\_ihr\\_20100801\\_en.pdf?ua=1](http://www.who.int/ihr/publications/who_hse_ihr_20100801_en.pdf?ua=1)



You can also refer to your courier's website for advice.

## UN3373 Packaging Guide for Air and Road Transport

### Are You Transporting Biological Samples by Air or Road?

Follow these Guidelines to Ensure Your Compliance and Find the Products You Need

<b>Air</b>	
↓	
Is Your Primary Container Certified 95kPa at both -40C and +55C? <sup>1,2</sup>	
Yes	No
↓	↓
You need Leak-Proof Secondary Packaging with Absorbent <sup>3</sup> using either...	You need a Secondary Pouch Certified 95kPa at both -40C and +55C with Absorbent <sup>3</sup> (see page 99)
An all-in-one SpeciSafe <sup>®</sup> Pack (see page 95)	A Bag (see page 98) + Absorbent <sup>3</sup> (see page 97)
↓	↓
↓	↓
Rigid Outer Packaging Required <sup>4</sup> (see page 100)	

<b>Road</b>	
↓	
Is Your Primary Container Certified 95kPa at Ambient Temperature?	
Yes	No
↓	↓
You need Leak-Proof Secondary Packaging with Absorbent <sup>3</sup> using either...	You need a Secondary Pouch Certified 95kPa at Ambient Temperature with Absorbent <sup>3</sup> (see page 99)
An all-in-one SpeciSafe <sup>®</sup> Pack (see page 95)	A Bag (see page 98) + Absorbent <sup>3</sup> (see page 97)
using either...	↓
↓	↓
↓	↓
Flexible Outer (see page 101)	Rigid Outer Packaging Required <sup>4</sup> (see page 100)

Note 1. The 95kPa pressure differential test is required for either the primary or secondary container. If the primary container does not have this certification, or you are unsure, you should use a 95kPa certified secondary container.

Note 2. The required pressure differential test is different for air and road transport. For road transport the test is conducted at ambient temperature. For Air transport it must also be conducted at both -40C and +55C.

Note 3. Absorbent material must be capable of absorbing the entire contents of the primary containers.

Note 4. For air transport, you must use a rigid outer box.

Note 5. For road transport the rigid element of the packaging can be either the secondary or the outer packaging.

Important - Always check with your transport provider to ensure they do not have any additional special conditions for transport of Biological Substances.



## Sample Collection Solutions

### Fe-Col® Faecal Collection Papers

#### Hygienic and Convenient for the Patient, Quality Samples for the Laboratory

There are numerous assays now available that can diagnose clinical conditions from the biomarkers, analytes or pathogens found in faecal samples.

However, collecting a faecal sample is difficult and unpleasant and the various methods used can cause erroneous results and additional work for the laboratories.

#### New Fe-Col® Papers Solve the Problem

Fe-Col® is a unique, disposable stool collection paper, which is easily and securely placed on the toilet and can be flushed away entirely after use as it is completely degradable.

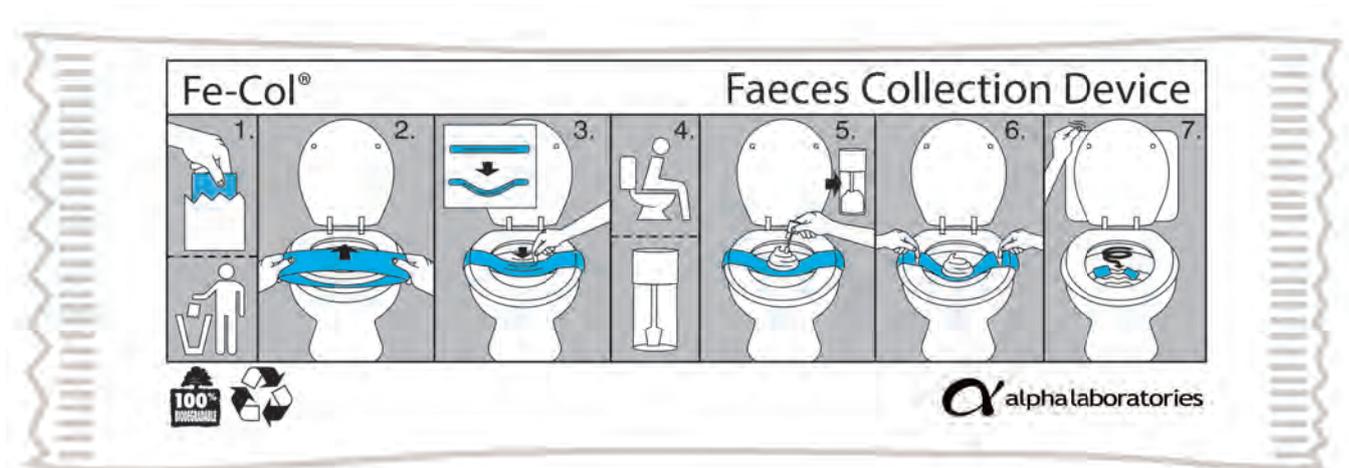
Available on its own with clear pictorial instructions for use, or in various kit formats for use by patients in clinics or at home, complete with return UN3733 compliant mailing packs.

#### Features:

- Made from wood-free paper
- Flushable & biodegradable
- No optical brightness additives (e.g. bleach)
- Simple instructions for use
- Flow-seal packaging
- Small and compact
- Recycled material

#### Perfect for:

- Clinical Trials
- Screening Programmes
- Faecal Elastase Testing
- Fat content tests
- Infectious disease tests etc.



#### Benefits

##### For the patient

- Easy to use
- Use the toilet as normal
- Hygienic
- No mess
- Nothing to throw away
- No toilet blockages

##### For the Testing Laboratory

- Encourages increased uptake on screening programmes
- Less contamination
- Less variability
- More accurate results
- Reduction of pre-analytical errors
- Fewer repeat tests
- Reduce overall laboratory costs

Fe-Col® is supplied in a discreet, flat flow-wrapped package. When unwrapped and unfolded it opens up to slip easily onto the toilet seat ready for use. It remains firmly in place whilst some of the sample is transferred into an appropriate vessel. A full range of sample collection containers and tubes are available from Alpha Laboratories, please see the website. Alternatively choose one of the Fe-Col kits with inclusive faecal storage container.



## FC2040 - Faecal Collection Kit Mini

Each kit contains:

- 1 x Fe-Col® faecal collection paper enclosed in a flow-sealed pack size 65 x 170mm (FC2010)
- 2 x Polysynthetic gloves
- 2 x Cardboard applicators
- 1 x Instructions for use



## FC2050 - Faecal Collection Kit Basic

Each kit contains:

- 1 x Fe-Col® faecal collection paper enclosed in a flow-sealed pack size 65 x 170mm (FC2010)
- 1 x Faecal storage container (SC4874) enclosed within
- 1 x SpeciSafe mailing pack (SH0600)
- 1 x UN labelled mailing envelope (SH1200)
- 1 x Instructions for use



## FC2060 - Faecal Collection Kit Premium

Each kit contains:

- 1 x Fe-Col® faecal collection paper enclosed in a flow-sealed pack size 65 x 170mm (FC2010)
- 1 x Faecal collection container (SC4874) enclosed within
- 1 x SpeciSafe mailing pack (SH0600)
- 1 x Biohazard bag (BS200PR-225)
- 2 x Polysynthetic disposable gloves
- 1 x UN labelled mailing envelope (SH1200)
- 1 x Instructions for use



## FC2030 - Fe-Col® Dispenser Box

Fe-Col® is also available in a handy dispenser box containing 50 faecal collection papers each enclosed in a flow-sealed pack with instructions. This is convenient for use in clinics, surgeries and dispensaries.



### Fe-Col® Faecal Collection Papers

Catalogue Number	Description	Pack Size
FC2010	Fe-Col Faeces Collection Paper with Instructions for Use (IFU)	1000
FC2030	Fe-Col Faeces Collection Paper with Instructions for Use in Dispenser Box. 5 boxes of 50	5 x 50
FC2040	Faeces Collection Kit Mini containing Fe-Col with IFU, gloves and cardboard applicators	100
FC2050	Faeces Collection Kit Basic contains Fe-Col with IFU, Sample container, SpeciSafe mailing pack and UN labelled mailing envelope	40
FC2060	Faeces Collection Kit Premium contains Fe-Col with IFU, gloves, Sample container, SpeciSafe mailing pack, biohazard bag and UN labelled mailing envelope	40

## PeeCanter Urine Sample Collection Device

The PeeCanter is a discreet and handy pop-up urine collection cup. It is supplied flat-packed, which reduces postal costs and storage space, and makes it ideal for inclusion into home testing kits where patients need to collect their own samples. The PeeCanter is simple and quick to assemble, simply press with finger and thumb in the marked areas and the 3D cup locks into position. The wide (50mm) aperture makes it easier to collect the sample reducing spillages and the square design of the cup provides a natural and accurate pouring spout for decanting into the final urine storage or transport container.

The design reduces the opportunity for crushing/cracking during the delivery and collection process, thus increasing the potential for return of usable sample.

Manufactured from card lined with a waterproof plastic sleeve, the maximum fill capacity is 200ml, and the collection cup measures 50 x 50 x 120mm (w x d x h) in its fully opened 3D shape.



Ideal for Point of Care Diagnostic Kits, Clinical trials, Sample Collection Kits, or anywhere there is a need to collect a urine sample.

### PeeCanter Urine Sample Collection Device

Catalogue Number	Description	Pack Size
412P	PeeCanter Urine Sample Collection Device with Instructions for Use	1000

## Swabs

A selection of plain and transport swabs for collection and safe transport of bacteriological, serological and cytological samples. Plain swabs are CE-marked for IVD and transport swabs as Class IIa in accordance with Medical Devices Directive 93/42/EEC.



Catalogue number	Description	Method of Sterilisation	Pack Size
SW1020	Plain Swab, Wooden Stick/ Cotton Tip, Non-Sterile	-	10 x 100
SW1030	Plain Swab, Wooden Stick/ Cotton Tip, Sterile	EO	100
SW1010	Transport Swab in White Cap PP Tube, PS Stick/Viscose Tip, Sterile	IR	500

EO = Ethylene Oxide Sterilisation  
IR = Irradiation



## Primary Containers for Sample Transport

Once collected, samples need to be stored and transported securely without the risk of contamination or leakage.

The key requirement for primary containers to transport samples is that they are leak-proof. Here we offer a range of primary containers which are tested and certified to be leak-proof.

However to meet the UN3373 P650 packaging instruction, either the primary or secondary container must have been tested specifically to withstand a 95kPa pressure differential test. For road transport this test should be conducted at ambient temperature, but for air transport, the test must also be conducted at -40C and +55C.

This means a leak-proof container, which has not been demonstrated to pass the 95ka pressure differential test, can only be used for sample transport when combined with a secondary container which has passed the appropriate test.

We have categorised the sample containers according to their certification, however tubes certified to the IATA standard may also be used for other forms of transport.

Please refer to the UN3373 Packaging Guide for Air & Road Transport on page 83 for further guidance.

## Primary Sample Containers Certified 95kPa Compliant for Air Transport

To be used with a leak proof secondary, absorbent and outer rigid box.

- Transport Tubes
- ProtectR®
- Blood Collection Tubes



## Transport Tubes



These transport tubes are ideal for sample collection and transport. Manufactured from virgin polypropylene, they are free-standing with an internal conical base, printed graduations and a frosted writing area. The green screw cap is supplied with the tube and is manufactured from polyethylene.

They are IATA 95kPa compliant for the storage and transport of a wide range of solid or liquid specimens.

These sample containers are suitable for sample transport according to UN3373 P650 packaging instruction when combined with appropriate secondary and tertiary packaging such as Alpha Laboratories Specisafe range.

The tubes are lot certified free of DNA, DNase, RNase, ATP and endotoxins. They are autoclavable at 121C and can be used for freezing samples.



Transport Tubes		
Catalogue Number	Description	Pack Size
TT1050	5ml Transport Tube, Screw Cap	2 x 500
TT1050S	5ml Transport Tube, Screw Cap, Sterile	10 x 50
TT1100	10ml Transport Tube, Screw Cap	2 x 500
TT1100S	10ml Transport Tube, Screw Cap, Sterile	10 x 50

## IATA 95kPa Centrifuge Tubes

ProtectR® Tube is the only container closure system engineered to be CO<sub>2</sub> resistant and prevent costly damage to molecular and cellular solutions when shipping or storing samples on dry ice.



### Prevent Acidification of Your Samples

Made of durable, high quality materials and fitted with an air-tight cap, ProtectR Tubes form a protective barrier, impermeable to CO<sub>2</sub>, keeping the sample pH stable and preventing acidification.

### IATA 95kPa Certified for Air Shipment

ProtectR tubes are IATA 95kPa certified for packaging and air transport of biological samples and meet the UN1845 requirements for shipment on dry ice.

The 95kPa certification requires containers to withstand, without leakage, an internal pressure producing a pressure differential of not less than 95kPa between the temperatures of -40C to +55C.

Since air transportation is typically the most rigorous transport condition, containers that meet IATA regulations are also suitable for other transport methods.

### Specifications

- Volume: Both 15ml and 50ml Tubes available
- Temperature Range: -80C to 110C
- Centrifuge: to 12,500g
- Sterility: Both Sterile and Non-Sterile formats available
- Autoclave: 122C at 15PSI
- Regulatory: CE IVD marked and CFR 21 USFDA Compliant
- Lot Certification: ATP, RNase, DNase, DNA, Endotoxin, Pyrogen free. Also low in trace metals
- Transportation: IATA 95kPa certified
- IntegraPack: 10 packs of 10 tubes (supplied in 2 sleeves of 5 packs)



### ProtectR® 15ml and 50ml Centrifuge Tubes

Catalogue Number	Description	Centrifuge Rating/RCF (g)	Pack Size
CT5015	15ml ProtectR Centrifuge Tube, Non Sterile	12,500	2 x 5 x 10
CT5015S	15ml ProtectR Centrifuge Tube, Sterile	12,500	2 x 5 x 10
CT5050	50ml ProtectR Centrifuge Tube, Non Sterile	12,500	2 x 5 x 10
CT5050S	50ml ProtectR Centrifuge Tube, Sterile	12,500	2 x 5 x 10

## ProtectR® Tubes Special Features

**Airtight, leak-resistant caps prohibit CO<sub>2</sub> from entering the tube's headspace**

**Patented, extra large, smudge-resistant writing panel**

**Max Freeze Indicator**

**Easy-to-read graduations & reverse scale**

**IATA 95 kPa certification for shipping**

**Thick, medical grade resin withstands breakage when frozen. Samples in ProtectR® Tubes should be frozen prior to dry ice exposure**

**Ideal vessel for primary & secondary containment when shipping on dry ice**  
(if used in accordance with UN3373 regulations and packaging instruction P650)

### ProtectR® Tube Quality & Compliance

- ATP FREE
- RNase/DNase FREE
- Non-Pyrogenic Endotoxin Free
- Certified Low Trace Metals
- Medical Grade Resin and Plastic USP Class II
- CFR 21 USFDA COMPLIANT
- CE IVD



## Primary Sample Containers Certified 95kPa Compliant for Road Transport

To be used with a leak-proof secondary, absorbent and either flexible or rigid outer packaging (please refer to the UN3373 Packaging Guide for Air & Road Transport on page 83).

- 30ml polypropylene Universal Containers
- 30ml polystyrene Universal Containers
- EveryDay Containers



## ADR 95kPa Certified - 30ml Universal Containers

Universal containers are aseptically manufactured from clear virgin polypropylene or polystyrene. All have a conical base and are self-standing. For stool collection there are options with a sampling scoop/spoon attached to the cap, or for urine collection there is an option with Boric Acid. Made to the highest standards and demanding specifications for the most critical applications. Manufactured under clean room conditions. All materials are non-cytotoxic.



### Universal Containers - Polypropylene Tube

Catalogue Number	Description	Material * (Tube/Cap)	Label	Sterility	Pack Size	Inner Pack
CW3840	30ml Universal	PP/PP	Printed	Aseptic	400	No
CW3850	30ml Universal with Boric Acid	PP/PP	Printed	Aseptic	400	No
CW3830	30ml Universal with Spoon	PP/PP	Printed	Aseptic	400	No
IR1385	30ml Universal	PP/PP	No	400	50	

### Universal Containers - Polystyrene Tube

Catalogue Number	Description	Material * (Tube/Cap)	Label	Sterility	Pack Size	Inner Pack
IR1390	30ml Universal	PS/PP	Printed	Aseptic	400	50
CW3820	30ml Universal with Boric Acid	PS/PP	Printed	Aseptic	400	No



CW3840



CW3850



CW3830



IR1385



IR1390



CW3820

## EveryDay Containers

95kPa tested 20ml and 60ml sample containers for the safe and efficient collection, storage and transport of a wide range of samples. The range includes a variety of HDPE colour caps and clear polypropylene jars available to order separately.

- Easy sample identification with a range of colourful caps
- 95kPa leak-proof tested, making them suitable for road transport
- Made from durable materials with high chemical resistance
- Easy-Grip cap design for easier closing and opening of containers
- Suitable for everyday use in any laboratory



Catalogue Number	Description	Pack Size
SC5520SJ	Specimen Container Jar 20ml Clear	500
SC5520CO	Specimen Container Cap 20ml Orange	500
SC5520CP	Specimen Container Cap 20ml Purple	500
SC5520CY	Specimen Container Cap 20ml Yellow	500
SC5520CR	Specimen Container Cap 20ml Red	500
SC5520CW	Specimen Container Cap 20ml White	500
SC5560SJ	Specimen Container Jar 60ml Clear	500
SC5560CO	Specimen Container Cap 60ml Orange	500
SC5560CP	Specimen Container Cap 60ml Purple	500
SC5560CY	Specimen Container Cap 60ml Yellow	500
SC5560CR	Specimen Container Cap 60ml Red	500
SC5560CW	Specimen Container Cap 60ml White	500



Primary Sample Containers For Road Transport

## Primary Sample Containers - Leak-Proof Tested

Leak-proof tested in accordance with BS EN 14254 Annexe D except CW3880 and CW3890 which are tested to BS5213:1975 (1989) Appendix A.

Note: Require an appropriately certified secondary container dependant on mode of transport, plus absorbent and outer packaging (please refer to the UN3373 Packaging Guide for Air & Road Transport on page 83).

- Bijou Containers
- 30ml polypropylene Universal Containers
- 60ml polystyrene Universal Containers
- Aseptic Containers

### Bijou Containers

Bijou containers offer a wide variety of uses across research, pharmaceutical and clinical laboratories.

For preservation of urine samples a bijou containing Boric Acid is available.

- Ideal for small volume samples
- Manufactured under clean room conditions
- Manufactured from virgin non-cytotoxic polystyrene
- CE marked in accordance with the European directive 98/79/EC
- For *in vitro* use only
- Leak-proof tested in accordance with BS EN 14254 Annex D



#### Bijou Containers

Catalogue Number	Description	Material * (Tube/Cap)	Label	Sterility	Pack Size	Inner Packs
RC2122	7ml Bijou Screw Cap Container	PS/PE	Plain	Aseptic	700	No
RC2124	7ml Bijou Screw Cap Container w/ Boric Acid	PS/PE	Plain	Aseptic	700	No
RC2120	7ml Bijou Screw Cap Container	PS/PP	No	Aseptic	700	No

\*PS = Polystyrene, PP = Polypropylene, PE = Polyethylene

### 30ml Universal Containers

Universal containers are aseptically manufactured from clear virgin polystyrene. All have a conical base and are self-standing.

For stool collection there are options with a sampling scoop/spoon attached to the cap.

Made to the highest standards and demanding specifications for the most critical applications. Manufactured under clean room conditions. All materials are non-cytotoxic.

#### Universal Containers - Polystyrene Tube

Catalogue Number	Description	Material * (Tube/Cap)	Label	Sterility	Pack Size	Inner Pack
CW3880	30ml Universal	PS/PP	No	Aseptic	400	No
CW3890	30ml Universal	PS/PP	Plain	Aseptic	400	No
CW3810	30ml Universal with Spoon	PS/PP	Printed	Aseptic	400	No
RC2145	30ml Universal with Spoon	PS/PP	No	Aseptic	400	No

## 60ml Containers

- Manufactured from virgin non-cytotoxic polystyrene
- CE marked in accordance with the European Directive 98/79/EC
- For *in vitro* use only
- Unique leak-tight cap ensures exceptional leak-proof seal
- Leak-proof tested in accordance with BS EN 14254 Annex D



### 60ml Containers

Catalogue Number	Description	Pack Size
IR1382	60ml Container PS/PE No Label Plastic Cap	300
IR1381	60ml Container PS/PE Printed Label Plastic Cap	300
IR1380	60ml Container Plain Label Plastic Cap	300

## Aseptic Container PS/Metal Cap

- Ideal for sample containment
- CE marked in accordance with the European Directive 98/79/EC
- For *in vitro* use only
- Aseptically manufactured under cleanroom conditions (class 7 ISO 14644) to exclude microbiological contamination
- Manufactured from virgin polystyrene
- All materials are non-cytotoxic



### Aseptic Container PS/Metal Cap

Catalogue Number	Description	Pack Size
IR1400	150ml Container No Label, Metal Flow Seal Cap	120
IR1405	150ml Container Plain Label, Metal Flow Seal Cap	120
IR1410	250ml Container No Label, Metal Flow Seal Cap	50
IR1415	250ml Container Plain Label, Metal Flow Seal Cap	50
IR1420	250ml Container Printed Label, Metal Flow Seal Cap	50

## Other Primary Sample Containers

### Slide Mailers

These polypropylene slide mailers offer a convenient solution for long-term storage or mailing of up to 5 slides.

These end opening mailers have an integral snap seal to keep out dust and moisture and protect slides from breakage. Internal ridges keep slides separated.

The mailers can also be used for storage of slides and can be used in staining procedures as an inexpensive substitute for a staining chamber or coplin jar.

Supplied non-sterile.



### Slide Mailers

Catalogue number	Description	Pack Size
SM0505	Polypropylene Mailing Container for 5 76x26mm Microscope Slides	100

## Secondary Packaging Solutions for Air or Road Transport

Alpha Laboratories provides a range of sample packaging materials that help make your regulatory compliance convenient, consistent and cost-effective, including the innovative SpeciSafe® all in one secondary packaging system. SpeciSafe packs are available in a range of designs to fit perfectly around commonly used 95 kPa sample vessels.

### Using SpeciSafe® for Air Transport

SpeciSafe packs must be used with primary containers which are certified to have passed a 95kPa pressure differential test to IATA standards. The primary container must maintain a 95kPa pressure differential at both -40C and +55C.

For air transport, the outer packaging must be rigid so SpeciSafe should be teamed with an outer rigid box.



### Using SpeciSafe® for Road Transport

SpeciSafe packs must be used with primary containers which are certified to have passed a 95kPa pressure differential test at ambient temperature. Since they are rigid, the SpeciSafe packs can be placed directly in a flexible envelope or bag, ready for transport. What's more, the dimensions of most SpeciSafe packs minimises postage costs. Depending on the sample vial size they can be mailed at large letter or small packet rate.



## Specisafe® Complete Secondary Mailing Packs for 95kPa Vials

**SpeciSafe® Provides a Safe, Convenient and Economical UN3373 Compliant Secondary Sample Packaging Solution**

SpeciSafe replaces secondary packaging for mailing Category B samples contained in 95kPa vials. It combines the absorbent material, vial separation and rigid container within a single pre-moulded mailing pack

You then only need to add a UN3373 labelled padded envelope or bag as your outer packaging when transporting by road, or a rigid box for air transport, saving you time and money.

SpeciSafe packs are available in a range of designs to fit perfectly around commonly used 95 kPa sample vessels.

### Benefits of Specisafe Packs

- Shock resistant primary container protection
- Built-in ultra-absorbent Gel Block – absolutely no leaks!
- Clear plastic enables sample details to be visible without unpacking
- Visible spillage indication prior to opening protects users
- User friendly, quick and intuitive use
- The pre-moulded packs keep multiple primary containers separated from each other
- Compliant flat-pack design minimises postage costs

### Ultra-Absorbent Lining Eliminates Leakage

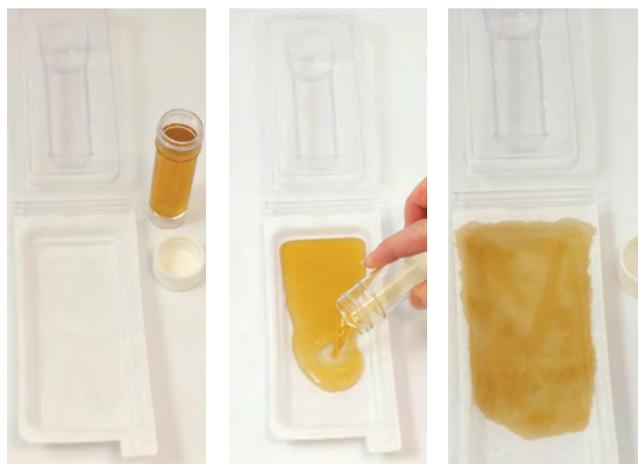
The unique feature of Specisafe packaging products is an internally bonded ultra-absorbent lining which soaks up any leakage in seconds.

The material is so absorbent that 1m<sup>2</sup> can soak up as much as 20 litres of liquid.

Once the lining has absorbed its maximum amount of liquid, it becomes a watertight barrier and effectively seals the Specisafe pack preventing any leakage from the secondary container.



*When used with 95kPa primary containers, Specisafe meets all requirements of UN3373 for secondary packaging.*



## Specisafe® for Micro Blood Tubes or Serum Vials

Specisafe secondary mailing packs suitable for transporting micro blood tubes, serum type tubes or 0.5, 1.5 or 2.0ml microtubes. Package just a single tube or up to 10 with speed and ease.



SH0100SS

Specisafe® for Micro Blood Tubes or Serum Vials		
Catalogue Number	Description	Pack Size
SH0100SS	Specisafe Packs to hold 10 Serum Vials	170
SH0110SS	Specisafe Packs to hold 10 Serum Vials	50
SH0301SS	Specisafe Packs to hold 6 Serum Vials / Micro Blood Tubes	300
SH0311SS	Specisafe Packs to hold 6 Serum Vials/ Micro Blood Tubes	100
SH1300SS	Specisafe Packs to hold 3 Serum Vials	500
SH1700SS	Specisafe Packs for 1 Serum Vial / Micro Blood Tube	450
SH1800SS	Specisafe Packs for 2 Serum Vials / Micro Blood Tubes	500
SH0800SS	Specisafe Packs for 4 Glass Serum Vials	210



SH0301SS

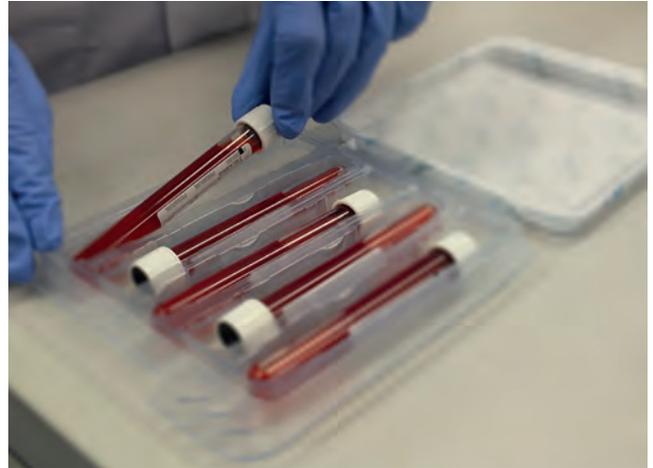


SH1300SS

# Sample Collection & UN3373 Packaging

## SpeciSafe® for Blood Collection Tubes

Ensure safe and compliant transport of various types of evacuating blood collection tubes with this range of SpeciSafe secondary mailing packs. These packs also accommodate microtubes, serum vials and cryovials.



SpeciSafe® for Blood Collection Tubes			
Catalogue Number	Description	Alternative Use	Pack Size
SH0200SS	SpeciSafe Packs to hold 3 Blood Type Tubes up to 6.5ml*	6x 0.5, 1.5 or 2.0ml screw cap microtubes/serum vials or 6x cryovials (<2ml) or 3x cryovials (2-5ml)	210
SH0210SS	SpeciSafe Packs to hold 3 Blood Type Tubes up to 6.5ml*	6x 0.5, 1.5 or 2.0ml screw cap microtubes/serum vials or 6x cryovials (<2ml) or 3x cryovials (2-5ml)	50
SH0400SS	SpeciSafe Packs to hold 2 Blood Type Tubes up to 10.5ml*	2 smaller blood tubes PLUS a 0.5, 1.5 or 2.0ml screw cap microtube/serum vial or cryovial	300
SH0410SS	SpeciSafe Packs to hold 2 Blood Type Tubes up to 10.5ml*	2 smaller blood tubes PLUS a 0.5, 1.5 or 2.0ml screw cap microtube/serum vial or cryovial	100
SH0500SS	SpeciSafe Packs to hold a Single Blood Type Tube up to 10.5ml*	1x cryovial (< 5ml) or 1x 0.5, 1.5 or 2.0ml screw cap microtubes/serum vials	500
SH0510SS	SpeciSafe Packs to hold a Single Blood Type Tube up to 10.5ml*	1x cryovial (< 5ml) or 1x 0.5, 1.5 or 2.0ml screw cap microtubes/serum vials	100
SH0701SS	SpeciSafe Packs to hold 5 Blood Type Tubes up to 10.5ml (Universal Fit)	5x Transport Tubes (5 or 10ml)	150

\*Please request a sample to check the fit of the blood tubes that you use

## SpeciSafe® for Universal Containers

These SpeciSafe secondary mailing packs are designed to fit standard 30ml Universal tubes commonly used as urine or faeces sample containers. There is a single or triple tube option available.



SpeciSafe® for Universal Containers		
Catalogue Number	Description	Pack Size
SH0600SS	SpeciSafe Packs to hold a Single Universal Container	300
SH0610SS	SpeciSafe Packs to hold a Single Universal Container	100
SH1400SS	SpeciSafe Packs to hold 3 Universal Containers	160



## SpeciSafe<sup>®</sup> for Short Swab Tubes or Bijou Containers

This SpeciSafe pack is suitable for transporting a single compact swab container and similar tubes – popular for sexual health screening and evidence kits. Also compatible with 7ml Bijou type containers and will accommodate two of these.



SpeciSafe <sup>®</sup> for Short Swab Tubes or Bijou Containers		
Catalogue Number	Description	Pack Size
SH0900SS	SpeciSafe Packs to hold 1 Swab Tube or 2 x Bijous	300

## SpeciSafe<sup>®</sup> for Large Volume Sample Containers

Large volume sample containers used to collect and transport urine, faeces or tissue specimens can be accommodated in the SH1500SS SpeciSafe. It can hold 3 x 40ml, 2 x 60ml or 1 x 90ml containers, or any two different volumes in combination.



SpeciSafe <sup>®</sup> for Large Volume Sample Containers		
Catalogue Number	Description	Pack Size
SH1500SS	SpeciSafe Packs to hold up to 3 Large Volume Sample Containers	170



## Absorbent Sheets

These super absorbent sheets can be used with all types of packaging to help meet UN3373 regulations. Available in 4 sizes specified by the volume that they can absorb, simply choose the one that will absorb at least the total volume of your sample. More than one sheet can be added to any packaging if required, to ensure that it would absorb all the sample in the event of catastrophic leakage.

A 4 bay absorbent pouch is also available, suitable for sending up to 4 blood type or similar tubes. This keeps the tubes separated from each other, without the need to wrap each one individually.



Absorbent Sheets		
Catalogue Number	Description	Pack Size
AB001	Absorbent Sheet 75 x 125mm - absorbs 50ml	1000
AB001-100	Absorbent Sheet 75 x 125mm - absorbs 50ml	100
AB002	Absorbent Sheet 125 x 150mm - absorbs 100ml	500
AB002-100	Absorbent Sheet 125 x 150mm - absorbs 100ml	100
AB003	Absorbent Sheet 150 x 250mm - absorbs 200ml	500
AB003-100	Absorbent Sheet 150 x 250mm - absorbs 200ml	100
AB004	Absorbent Sheet 250 x 300mm - absorbs 400ml	250
AB004-100	Absorbent Sheet 250 x 300mm - absorbs 400ml	100
AB010	Absorbent 4 Bay Pouch for up to 4 blood tubes	500
AB010-100	Absorbent 4 Bay Pouch for up to 4 blood tubes	100

## Specimen Bags

These handy, grip seal specimen bags comprise the main compartment plus an integral document wallet to ensure your paperwork stays with your samples. For use with appropriately tested 95kPa primary containers. These can also be used to separate multiple primary sample containers from each other.

Supplied non-sterile.



### Specimen Bags

Catalogue number	Description	Pack Size
BS1415	Specimen Bag with Wallet, Plain 23x15x18cm	100

## Other Secondary Packaging Solutions for Air Transport

### 95kPa IATA Pouches

Flexible Secondary Pouches are the ideal solution for transporting sample containers where the pressure resistance is either unknown or not certified to be 95kPa compliant. They are also useful for any sample container which does not fit into any of the moulded SpeciSafe® transport containers. These IATA compliant pouches can be used as the secondary packaging option when combined with a rigid outer box. In this way the pouches can be used to meet the UN3373 regulations P650 packaging instruction for transport of category B biological samples by air.

The IATA flexible secondary pouches have undergone much more rigorous testing at both -40C and +55C to ensure they are robust enough to withstand the changes in pressure and temperature they may encounter during air transport. They include a document wallet and have a lot number.



- 95kPa pouches carry full instructions
- Pouches have a document wallet on the reverse side
- For security, the flexible secondary pouches include a tamper evident seal

### 95kPa IATA Pouches

Catalogue Number	Description	Pack Size
FS95-C3-IATA	Flexible Secondary IATA 95kPa Pouch C3	250
FS95-C3-100-IATA	Flexible Secondary IATA 95kPa Pouch C3	100
FS95-C4-IATA	Flexible Secondary IATA 95kPa Pouch C4	300
FS95-C4-100-IATA	Flexible Secondary IATA 95kPa Pouch C4	100
FS95-C5-IATA	Flexible Secondary IATA 95kPa Pouch C5	700
FS95-C5-100-IATA	Flexible Secondary IATA 95kPa Pouch C5	100

## Secondary Packaging Solutions for Road Transport

### 95kPa ADR Pouches

Flexible Secondary 95kPa Pouches are the ideal solution for transporting sample containers where the pressure resistance is either unknown or not certified to be 95kPa compliant. They are also useful for any sample container which does not fit into any of the moulded SpeciSafe® transport containers. These ADR pouches can be used as the secondary packaging option when combined with a rigid outer box. The rigid outer can be an individual one, or a hospital courier transport box designed to hold several samples.

In this way the pouches can be used to meet the UN3373 regulations P650 packaging instruction for transport of category B biological samples by road.



- 95kPa pouches carry full instructions
- Areas to write sender and recipient details
- Check boxes for temperature requirements
- Unique sequential barcoded number for easy package recognition
- C5 and C4 pouches have a document wallet on the reverse side
- For security, the flexible secondary pouches include a tamper evident seal
- Pouches can be purchased on their own or with appropriately sized absorbent in various pack sizes

#### 95kPa ADR Pouches

Catalogue Number	Description	Pack Size
FS95-C3	Flexible Secondary 95kPa Pouch C3	250
FS95-C3-100	Flexible Secondary 95kPa Pouch C3	100
FS95-C4	Flexible Secondary 95kPa Pouch C4	500
FS95-C4-100	Flexible Secondary 95kPa Pouch C4	100
FS95-C5	Flexible Secondary 95kPa Pouch C5	1000
FS95-C5-100	Flexible Secondary 95kPa Pouch C5	100

### 95kPa ADR Pouches with Absorbent

For added convenience these pouches come complete with the appropriately sized absorbent sheet.



#### 95kPa ADR Pouches with Absorbent

Catalogue Number	Description	Pack Size
FS95-C3A-100	Flexible Secondary 95kPa C3 200ml Absorbent	100
FS95-C3A-500	Flexible Secondary 95kPa C3 200ml Absorbent	500
FS95-C4A-100	Flexible Secondary 95kPa C4 100ml Absorbent	100
FS95-C4A-500	Flexible Secondary 95kPa C4 100ml Absorbent	500
FS95-C5A-100	Flexible Secondary 95kPa C5 50ml Absorbent	100
FS95-C5A-1000	Flexible Secondary 95kPa C5 50ml Absorbent	1000

## Outer Packaging Solutions for Air or Road Transport

### Labels and Seals

Labels can be purchased to add to your own packaging solutions which comply with the UN3373 regulations. Save time and effort with labels directly from a roll. Also available is the tamper evident security seal. This has a special adhesive to ensure it cannot be removed without being torn so it becomes immediately obvious if the package has been previously opened.

Labels and Seals		
Catalogue Number	Description	Pack Size
LB001	Security Seal	1000
LB002	UN3373 Label Small 50mm x 50mm	1000
LB003	UN3373 Label Large 100mm x 100mm	1000



### Rigid Outer Boxes



Use these boxes when you need to tailor the packaging to exactly suit your needs. The Rigid Outer Containers are available in 5 useful sizes. All boxes are supplied flat packed to minimise storage requirements and have full instructions for assembly. They can be used together with SpeciSafe® as well as with 95kPa pouches for either air or road transport.



Rigid Outer Boxes		
Catalogue Number	Description	Pack Size
RO-LL1	Rigid Box Dimensions: 192 x 147 x 24mm	35
RO-200G	Rigid Box Dimensions: 194 x 125 x 43mm	35
RO-330G	Rigid Box Dimensions: 194 x 125 x 68mm	35
RO-500G	Rigid Box Dimensions: 194 x 125 x 102mm	30
RO-1K	Rigid Box Dimensions: 251 x 194 x 102mm	30
ROI-1K-7	Insulated Rigid Box Outer Dimensions: 251 x 194 x 102mm	7

### Medical Collection Containers

The MedDXTAINER Medical Collection Container is a popular choice with medical couriers and hospital transport. Used for the collection of multiple samples from off-site clinics and laboratories, this ABS plastic carrier can be stacked and locked, enabling three or four units to be carried together.

The medical collection container is regulatory marked and should be used in conjunction with a secondary packaging. If primaries are not 95kPa we advise the use of the 95kPa pouches to ensure compliance.

A range of additional options are available including shoulder straps, trolley, security components and EPP insulated liners for refrigerated shipments. Please enquire for details.

- ABS rigid plastic carrier ensures durability and reusability
- Foam lid and base sample protection pads
- Lockable stacking feature
- Regulatory compliant markings
- Carry handle



### Medical Collection Containers

Catalogue Number	Description	Pack Size
MDXT-4	MedDXTAINER 4 Medical Collection Container Dimensions: 415 x 315 x 340mm	Each
MDXT-5	MedDXTAINER 5 Medical Collection Container Dimensions: 415 x 315 x 445mm	Each
MDXT-MINI3	MedDXTAINER MINI 3 Medical Collection Container Dimensions: 142 x 265 x 171mm	Each

## Outer Packaging Solutions for Road Transport

### Mailing Bags and Envelopes

When a 95kPa primary container is used with SpeciSafe® secondary packaging, the SpeciSafe meets the “rigid” requirements of the UN3373 regulations, hence only an outer flexible envelope is required to transport items by road. These flexible envelopes are made from lightweight polyethylene and used together with SpeciSafe can help to minimise postage costs, enabling many sample packages to be mailed at large letter rather than parcel rates.

#### Mailing Bags and Envelopes

Catalogue Number	Description	Pack Size
SH1000	UN3373 Labelled White Polyethylene C5 Size Envelopes	500
SH1010	UN3373 Labelled White Polyethylene C5 Size Envelopes	100
FO013-500	UN3373 Labelled White Polyethylene C4 Size Envelopes	500
FO013-100	UN3373 Labelled White Polyethylene C4 Size Envelopes	100



#### Off-the-Shelf or Customised for You

Combining SpeciSafe packaging with the primary sample containers and UN3373 labelled envelopes provides a convenient and complete solution. SpeciSafe and Envelopes can even be customised (except SH1200) with labels to include your required address and unique Royal Mail business reply reference. Ideal for clinical trials packs etc. Contact us to discuss your needs and obtain a quotation.

## Complete Kits for Sample Collection and Transport

### Complete Mailing Systems for Road Transport

Convenient complete sample transport systems with everything you need to meet the P650 packaging instruction.

These convenient sample transport complete systems make UN3373 compliance simple. They contain absorbent material, a 95kPa pressure tested secondary pouch, a rigid outer box and a security seal. Suitable for road transport, and can accommodate all types of primary sample container. Use when the pressure differential of the primary container is unknown, or when your primary doesn't fit into any of the SpeciSafe® secondary sample transport clamshells.

Available in a range of sizes, with an option for an insulated pack, simply pick the one which matches your requirements best.

These sample collection kits are supplied flat packed to minimise storage requirements.



#### Complete Mailing Systems

Catalogue Number	Description	Box Size	Pouch Size	Absorbent Size	Additional Items	Pack Size
RF95-LL1	Rigid Flexible 95 LL1	192 x 147 x 24mm	C5 150 x 205mm	50ml 75 x 125mm	Security Seal	25
RF95-200G	Rigid Flexible 95 200G	194 x 125 x 43mm	C5 150 x 205mm	100ml 125 x 150mm	Security Seal	25
RF95-330G	Rigid Flexible 95 330G	194 x 125 x 68mm	C5 150 x 205mm	100ml 125 x 150mm	Security Seal	25
RF95-500G	Rigid Flexible 95 500G	194 x 125 x 102mm	C4 198 x 298mm	200ml 150 x 250mm	Security Seal	25
RF95-1K	Rigid Flexible 95 1K	251 x 194 x 102mm	C4 198 x 298mm	200ml 150 x 250mm	Security Seal	25
RFI95-1K-7	Rigid Flexible 95 System Insulated 1K	251 x 194 x 102mm	C4 198 x 298mm	200ml 150 x 250mm	Security Seal, expanded polystyrene insulation	7

## Complete Kits for Sample Collection and Transport

### Tailor-Made Sample Collection & Transport Kits.

Do you collect samples from patients at home for return to a central location? Patients often find it difficult to understand the complex instructions required to ensure Dangerous Goods compliance for return of their samples. With several layers of packaging and sometimes multiple tubes and lancets, diagnostic or health screening kits can present a daunting prospect.

Samples which are incorrectly packaged may be received in a condition where they are unsuitable for testing. This can lead to samples needing to be re-taken which can be costly both financially and in terms of time.

Alpha Laboratories' bespoke sample collection and transport kits utilising the unique SpeciSafe® packaging system can make this easier. Kits can be tailor made to your exact specification containing everything required for collection of the specimen, plus a simple intuitive solution for sample return. All this can be presented in a small, smart bespoke package, enhancing your company image, and minimising transportation costs.



### Clinical Trials Kits

Clinical trials programmes usually require the movement of biological samples from the patient or clinic to the testing laboratory, ensuring they are collected and received at the laboratory in the best possible condition. Whether blood, urine, faeces or tissue they need to be transported in accordance to strict regulations.

We help you to consider every aspect of the process: from the sample collection experience; regulatory compliance (eg UN3373, PI650); carrier handling processes; through to sample reception.

Working with you we will design and manufacture a tailored clinical trials kit solution that will help you achieve better quality samples and higher sample return rates.

We design, manufacture and assemble kits. We also manufacture many of the different components in Clinical Trial testing kits such as SpeciSafe® packs, absorbents, 95kPa pouches etc. , which enables us to offer highly competitive pricing, a rapid response and faster bespoke solutions where required.

Contact us to discuss your Clinical Trials Kit Requirements.



### Health Screening Kits

Alpha Laboratories can provide a complete compliant medical and diagnostic sample collection and transport packaging range and support service.

Providing components, complete collection kits and fulfilment services, our solutions meet UN3373 PI650 regulations, control cost and help to increase sample return rates.

Contact us to discuss your Health Screening Kit Requirements.



## Drug and Alcohol Abuse Kits

Working closely with global and independent drug and alcohol abuse testing organisations we can provide support by challenging some of the more traditional sample collection methodologies and processes.

Our solutions are designed to help you achieve the best quality samples and higher sample return rates: thus delivering a better service to your customers.

We can provide complete design, manufacturing and assembly of testing kits. We can also source many of the different components in Drug and Alcohol Abuse Screening kits, at highly competitive pricing, providing a rapid response and faster bespoke solutions where required.

We will work with you to create a tailored solution that best suits your needs.

Contact us to discuss your Drug and Alcohol Abuse Kit Requirements.



## Sexual Health Kits

Working closely with the NCSP (National Chlamydia Screening Programme), our partners are continually developing the design of our sexual health kits to improve the end user experience. With the breadth of testing increasing across HIV programmes and the growing home test market our expertise in regulatory compliant medical sample collection kits is particularly relevant.

Our support enables you to free up more of your organisation's valuable resources and reduce costs.

Our smart solutions are designed with a focus on helping you achieve better quality samples and higher sample return rates: thus delivering better patient healthcare.

Alongside the design, manufacture and assembly of kits, the manufacture of many of the different components in Sexual Health Screening kits, enables us to offer highly competitive pricing, a rapid response and faster bespoke solutions where required.

Contact us to discuss your Sexual Health Kit Requirements.



## Disease Control Kits

A Various Government agencies are continuously involved in disease control and eradication activities. We can plan and develop solutions ready for each stage of the disease control process, allowing us to react quickly in the required volumes for the specific challenge.

Step 1 - Contingency: Availability of the best solution developed and in stock, immediately ready for the crucial early stages of outbreak: enabling very quick response times and planned, controlled costs.

Step 2 - Outbreak: Ready with smart solutions designed to maintain the integrity of the vital initial samples during extraction, movement and reception; thus helping to ensure early detection and identification.

Step 3 - Containment: Solutions designed to address the specific challenges related to collecting and extracting samples in situations where containment is necessary.

Step 4 - Eradication and monitoring: Providing solutions to support ongoing monitoring in order to achieve the ultimate goal of eradication.

Contact us to discuss your Disease Control Kit Requirements.



## Proficiency Testing Kits

Our partner already supplies a number of world-class proficiency testing organisations with high quality solutions to ensure that test samples consistently arrive at the laboratories intact and in premium condition. The quality of our packaging is reflective of the crucial services being tested.

Trusting us with this part of the process enables you to free up more of your organisation's valuable resources and reduce costs.

Our solutions are designed and manufactured with a focus on helping to achieve the best quality samples and ultimately deliver better patient healthcare.

We understand that your needs and those of your stakeholders are unique and we never try to convince you that one size fits all.

Contact us to discuss your Proficiency Testing Kit Requirements.



## Food and Water Testing Kits

We offer test kits and packaging systems designed to facilitate the testing of water from various sources (sewerage/water refining plants/air-conditioning systems/condensers/cooling towers) in order to prevent and control disease outbreaks. We also supply solutions to support meat plants, food retailers and laboratories in the provision and transport of samples for routine food testing to detect potential threats to public health.

Trusting us with this part of the process enables you to free up more of your organisation's valuable resources and reduce costs.

Our solutions are designed and manufactured with a focus on achieving the best quality samples and ultimately supporting improved public health.

We understand that your needs and those of your stakeholders are unique and we never try to convince you that one size fits all.

Contact us to discuss your Food and Water Testing Kit Requirements.



## Kit Fulfillment

Trusting us with your regulatory compliant (eg UN3373, PI650) medical sample collection kit fulfillment process enables you to free up more of your organisation's valuable resources and reduce costs.

We understand you may have concerns about handing over your entire kit fulfillment process to an outside company. However, you can be reassured that we have the expertise, knowledge, training, quality processes and attention to detail required to provide the very best service on your behalf.

We can provide/offer various fulfilment solutions, including:

- Kit refurbishment
- Stock call-off
- Logistics and delivery services, including a Direct to Patient service

We work on your behalf to develop regulatory compliant smart solutions to address your specialist needs and help you to increase efficiency and reduce overall costs.

Contact us to discuss your Kit Fulfillment Requirements.

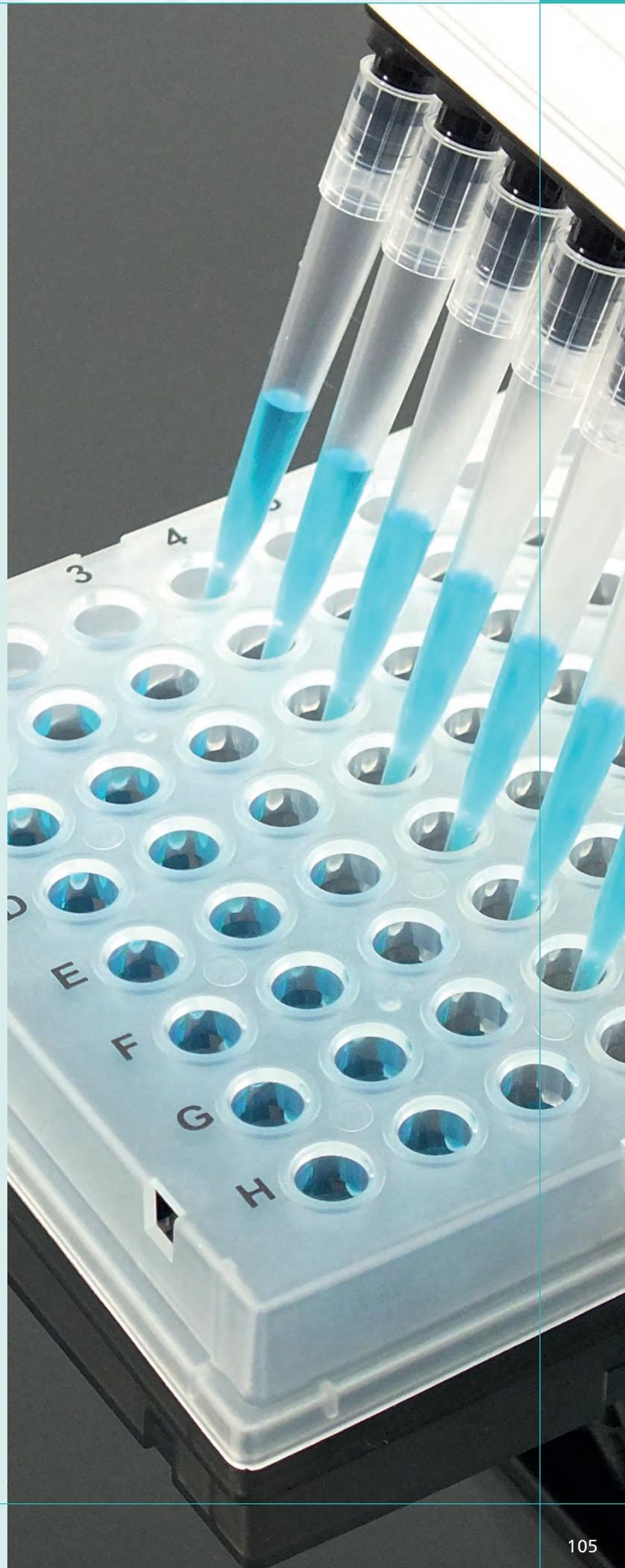


## Quality for Performance

The importance of high quality PCR consumables should not be underestimated. They can have a significant effect on the reaction speed, consistency of results, robustness, product yield, fidelity and specificity of the reaction. Whether you choose individual PCR tubes, strip tubes or plates from Alpha Laboratories, you can rest assured that the ultra thin walls ensure efficient thermal transfer and inhibitor-free certification means no assay interference.

For high throughput assay or storage demands choose from 96 or 384 Well microtitre and deep Well plates or opt for organised microtubes.

Our extensive range of plate sealing options gives you everything you need for PCR, short or long term storage, manual or automation accessibility.



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## PCR Tubes

Designed for optimal heat transfer and sample security, this range of 0.2ml and 0.5ml PCR tubes offers excellent performance and value.

Choose from domed or flat caps. PCR tubes are also available in a range of colours so you can colour co-ordinate samples in your lab to aid workflow.

- Designed to fit all major suppliers' instruments
- 0.2ml or 0.5ml tubes available
- Choice of caps
  - Flat caps for easy sample labelling
  - Domed caps for better heat transfer from thermal cycler lids
- Certified free from RNase, DNase, DNA, DNA Inhibitors and endotoxins



### Individual 0.2ml PCR Tubes

Catalogue Number	Description	Pack Size
LW2330*	0.2ml PCR Tubes, domed caps	1000
LW2170	0.2ml PCR Tubes, flat caps	1000

\*Also available in colours. Please see our website.

### Individual 0.5ml PCR Tubes

Catalogue Number	Description	Pack Size
LW2175*	0.5ml PCR Tubes, flat caps	1000

\*Assorted packs available, add suffix: AS=assorted.

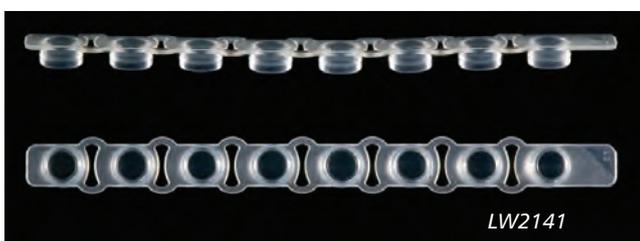
## PCR Tube Strips

Our range of PCR strip tubes has been selected to bring you a comprehensive range for standard and Quantitative PCR.

With all the features of our standard PCR tubes, the strip tube range now includes strips of white tubes with individually attached optically clear caps.

The white Wells maximise reflectance for enhanced signals whilst the optically clear caps enable optimal signal transmission and detection. Optically clear caps are also available on clear strip tubes.

- Some formats can be cut into individual tubes or groups of tubes
- Available without caps for use with cap strips
- Optical, flat or domed caps available
- White tubes for enhanced signals, clear tubes for sample visibility



### 8- and 12-Strip Thin-Walled Tubes and Caps for PCR

Catalogue Number	Description	Pack Size
<b>Strip tubes without caps</b>		
LW2520	0.2ml 8-strip tubes, without caps	125
LW2161	0.2ml 12-strip tubes without caps	80 x 12
<b>Strip tubes with separate strips of caps</b>		
LW2335	0.2ml 8-strip tubes & 8-strip domed caps	125
LW2535	0.2ml 8-strip tubes & 8-strip flat optical caps	125
LW2340	0.2ml 12-strip tubes & 12-strip domed caps	80
<b>Strip tube with attached hinged strip of caps</b>		
LW2500	0.2ml 8-strip tubes & hinged 8-strip domed cap	125
LW2560	0.2ml 8-strip tubes & hinged 8-strip flat optical cap	125
<b>Strip tubes with individually attached caps</b>		
LW2510*	0.2ml 8-strip tubes & individual domed caps	120
LW2505	0.2ml breakable 8-strip tubes & individual flat optical caps	120
LW2570*	0.2ml 8-strip tubes & individual flat optical caps	120
LW2575	0.2ml 8-strip white tubes & individual flat optical caps	120
LW2580	0.1ml 8-strip low profile tubes & individual flat optical caps	10 x 12
<b>Cap Strips - for use with strip tubes above and plates as shown in the compatibility chart</b>		
LW2222	8 Strip Domed Caps, Natural	125
LW2141	0.2ml 8-Strip Caps, Optically Clear	125
LW2190	0.2ml 12-Strip Domed Caps Natural	80
LW2525	0.2ml 12-Strip Flat Optical Caps	80
<b>Cap Strips - for use with plates as shown in the compatibility chart</b>		
LW2905	Domed cap strip, 8, for PCR plates	125
LW2915	Flat cap strip, 8, for PCR plates	125
LW2925	Cap strip, 12, for PCR plates	125

\* Also available in colours. Please see our website.

### Corbett RotorGene qPCR Strip Tubes with Caps

Catalogue Number	Description	Pack Size
LW2590	0.1ml qPCR tubes with caps 4 strip	250
LW2590-BULK	0.1ml qPCR tubes with caps 4 strip	10 x 250

# Microplates and PCR Consumables

## Thermal Cycler Plate Compatibility Chart

Thermal Cycler Make	Thermal Cycler Model	Plate	LW2902	LW2200	LW2910	LW2203	LW2206	LW2940	LW2950	LW2213
			(Unskirted)	(Unskirted)	(Unskirted, Low profile)	(Unskirted, Low profile)	(Chimney top)	(Chimney top, Semi-skirted)	(Raised Rim, Semi-skirted)	(Raised Rim, Semi-skirted)
Alpha Laboratories (Bioer)	GeneTouch / GenePro / XP 96 Well				✓	✓				
	GeneTouch / GenePro / XP 384 Well									
	GeneMax			✓	✓					
	LifeECO / LifeTouch / LifePro			✓	✓					
Analytic Jena	SpeedCycler <sup>®</sup> 96 LP/LPR				✓	✓				
	SpeedCycler <sup>®</sup> 96 SP/SPR	✓	✓							
	Flexcycler 96 / 96G	✓	✓			✓	✓			
Applied Biosystems Life Technologies Thermo Fisher	2720 / Proflex								✓	✓
	GeneAmp <sup>®</sup> 9700								✓	✓
	SimpliAmp <sup>™</sup>								✓	✓
	Veriti <sup>®</sup> FAST / Veriti <sup>®</sup> Dx Fast								✓	✓
	Veriti <sup>®</sup> / Veriti <sup>®</sup> Dx								✓	✓
Veriti <sup>®</sup> 384									✓	
Arktik	Arktik			✓	✓					
Biometra	TProfessional Standard SL			✓	✓					
	TProfessional Std / Basic / Advanced			✓	✓					
	TRobot									
	TGradient	✓	✓							
Bio-Rad (MJ Research)	C1000/S1000 Touch Fast			✓	✓					
	C1000 / S1000 Deep Well	✓	✓	✓	✓					
	C1000 / S1000 Touch 384			✓	✓					
	DNA Engine 96 Well / PTC-100	✓	✓	✓	✓		✓			
	DNA Engine 384 Well									
	iCycler <sup>™</sup>	✓	✓							
	MyCycler	✓	✓							
	Mini Gradient				✓					
	GeneCycler			✓						✓
	Personal		✓							
Corbett	PalmCycler 96	✓		✓				✓		
	PalmCycler 384									
Eppendorf	Mastercycler / Pro / Gradient			✓	✓					
	Mastercycler 384 / Pro 384									
	Mastercycler Nexus	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Mastercycler ep	✓	✓	✓	✓	✓	✓	✓		
G-Storm/VWR	GStorm 96 Well	✓	✓	✓	✓	✓	✓			
	GStorm 384 Well									
MWG/Peqlab	Primus 96 / Peqstar 96	✓	✓	✓	✓	✓				✓
	Primus 384 / Peqstar 384									
Stratagene	SureCycler 8800 96 Well	✓	✓			✓	✓			
	SureCycler 8800 384 Well									
	RoboCycler 96	✓	✓	✓			✓			
	RoboCycler Gradient	✓	✓	✓	✓	✓	✓			✓
Techne	Prime Combi	✓	✓	✓	✓	✓	✓	✓		
	Prime 96 / Elite 96 / EliteSAT	✓	✓	✓	✓	✓	✓	✓		
	Prime Elite 384 / 384 / EliteSAT									
	Touchgene / Cyclogene	✓	✓	✓	✓	✓	✓			✓
	Genius / Genius Quad	✓	✓	✓	✓	✓	✓			✓
	Genius TC412	✓	✓	✓	✓	✓				✓
	Flexigene	✓	✓							✓
	Touchgene X / TC512	✓	✓	✓	✓					✓

## qPCR Plate Compatibility Chart

Alpha Labs (Bioer)	LineGene 96 series		✓							
Applied Biosystems Life Technologies	7000								✓	✓
	7300 / 7500								✓	✓
Thermo Fisher	7900 HT / Quantstudio (DX) / ViiA7 (DX)								✓	✓
	7500 FAST / FAST DX / 7900 HT FAST								✓	✓
	Step One plus / ViiA7 FAST / DX FAST									
Biometra	TOptical			✓	✓					
Bio Rad (MJ Research)	CFX 96 Touch / CFX Connect			✓	✓					
	CFX 96 Touch Deep Well	✓	✓	✓	✓					
	CFX 384 Touch									
	iCycler iQ <sup>®</sup> / iQ <sup>™</sup> 5 / MyiQ2 <sup>™</sup> / MyiQ <sup>™</sup> 2			✓	✓					
	Chromo4 <sup>™</sup> System			✓	✓					
Eppendorf	DNA Engine Opticon <sup>®</sup> 2 / Mini Opticon	✓	✓							
Roche	Mastercycler ep Realplex/ (4)									
Stratagene	Lightcycler 96 / 480									
Techne	Mx3000P / Mx3005P	✓	✓			✓	✓			
	PrimeQ	✓	✓	✓	✓	✓	✓			

## Sequencer Plate Compatibility Chart

Applied Biosystems Life Technologies	310									
Thermo Fisher	3130 / XL								✓	✓
	3500 / XL / XL DX / DX								✓	✓
	3730 / XL								✓	✓
Transgenomic	Wave 3500									

## Sealing Options

	LW2905, LW2915, LW2925, foils & films	LW2141, LW2190, LW2222, LW2525, foils & films	LW2905, LW2915, LW2925, foils & films	LW2141, LW2190, LW2222, LW2525, foils & films	LW2141, LW2190, LW2222, LW2525, foils & films	LW2905, LW2915, LW2925, foils & films	LW2905, LW2915, LW2925, foils & films	LW2141, LW2190, LW2222, LW2525, foils & films
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This chart is intended as a guide only

## Thermal Cycler Plate Compatibility Chart

LW2970 (Semi-skirted)	LW2214 (Semi-skirted, FAST)	LW2230W (Semi-skirted, Low Profile, Lightcycler)	LW2210 (Semi-skirted, Low Profile)	LW2215 (Semi- skirted, Straight Lines)	LW2920 (Skirted)	LW2216 (Skirted)	LW2960 (384 Well)	LW2220 (384 Well, Lightcycler)	LW2225W (384 Well, ABI type)	Plate	Thermal Cycler Model	Thermal Cycler Make
		✓	✓		✓	✓	✓	✓	✓		GeneTouch / GenePro / XP 96 Well	Alpha Laboratories (Bioer)
		✓	✓		✓	✓		✓			GeneTouch / GenePro / XP 384 Well	
		✓	✓		✓	✓		✓			GeneMax	Analytic Jena
✓		✓	✓		✓	✓		✓			LifeECO / LifeTouch / LifePro	
✓		✓	✓		✓	✓		✓			SpeedCycler <sup>2</sup> 96 LP/LPR	
✓		✓	✓		✓	✓		✓			SpeedCycler <sup>2</sup> 96 SP/SPR	
					✓	✓					Flexcycler 96 / 96G	Applied Biosystems Life Technologies Thermo Fisher
					✓	✓					2720 / Proflex	
					✓	✓					GeneAmp <sup>®</sup> 9700	
					✓	✓					SimpliAmp <sup>™</sup>	
	✓										Veriti <sup>®</sup> FAST / Veriti <sup>®</sup> Dx Fast	Arktik
		✓	✓				✓		✓		Veriti <sup>®</sup> / Veriti <sup>®</sup> Dx	
		✓	✓				✓		✓		Veriti <sup>®</sup> 384	
		✓	✓				✓		✓		Arktik	
	✓	✓	✓		✓	✓		✓			TProfessional Standard.SL	Biometra
		✓	✓		✓	✓		✓			TProfessional Std / Basic / Advanced	
✓		✓	✓		✓	✓		✓			TRobot	Bio-Rad (MJ Research)
		✓	✓		✓	✓		✓			TGradient	
		✓	✓		✓	✓		✓			C1000 / S1000 Touch Fast	
		✓	✓		✓	✓		✓			C1000 / S1000 Deep Well	
		✓	✓		✓	✓	✓	✓	✓		C1000 / S1000 Touch 384	Bio-Rad (MJ Research)
		✓	✓		✓	✓		✓			DNA Engine 96 Well / PTC-100	
		✓	✓		✓	✓		✓			DNA Engine 384 Well	
		✓	✓		✓	✓		✓			DNA Engine 384 Well	
					✓	✓					iCycler <sup>™</sup>	Corbett
✓											MyCycler	
					✓						Mini Gradient	
					✓						GeneCycler	
					✓						Personal	Eppendorf
					✓						PalmCycler 96	
		✓	✓		✓	✓		✓			PalmCycler 384	Eppendorf
		✓	✓		✓	✓		✓			Mastercycler / Pro / Gradient	
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		Mastercycler 384 / Pro 384	Eppendorf
✓		✓	✓	✓	✓	✓		✓			Mastercycler Nexus	
✓		✓	✓	✓	✓	✓		✓			Mastercycler ep	G-Storm/VWR
✓		✓	✓	✓	✓	✓		✓			GStorm 96 Well	
✓			✓	✓	✓	✓	✓	✓	✓		GStorm 384 Well	MWG/Peqlab
✓			✓	✓	✓	✓		✓			Primus 96 / Peqstar 96	
✓			✓	✓	✓	✓	✓	✓	✓		Primus 384 / Peqstar 384	Stratagene
✓			✓	✓	✓	✓		✓			SureCycler 8800 96 Well	
✓			✓	✓	✓	✓	✓	✓	✓		SureCycler 8800 384 Well	Stratagene
✓			✓	✓	✓	✓		✓			RoboCycler 96	
✓		✓	✓	✓	✓	✓	✓	✓	✓		RoboCycler Gradient	Techne
✓		✓	✓	✓	✓	✓	✓	✓	✓		Prime Combi	
✓		✓	✓	✓	✓	✓	✓	✓	✓		Prime 96 / Elite 96 / EliteSAT	
✓		✓	✓	✓	✓	✓	✓	✓	✓		Prime Elite 384 / 384 / EliteSAT	
✓			✓	✓	✓	✓					Touchgene / Cyclogene	Techne
✓	✓		✓	✓	✓	✓					Genius / Genius Quad	
✓			✓	✓	✓	✓					Genius TC412	
✓	✓		✓	✓	✓	✓					Flexigene	
✓	✓		✓	✓	✓	✓	✓	✓	✓		Touchgene X / TC512	

## qPCR Plate Compatibility Chart

LW2970 (Semi-skirted)	LW2214 (Semi-skirted, FAST)	LW2230W (Semi-skirted, Low Profile, Lightcycler)	LW2210 (Semi-skirted, Low Profile)	LW2215 (Semi- skirted, Straight Lines)	LW2920 (Skirted)	LW2216 (Skirted)	LW2960 (384 Well)	LW2220 (384 Well, Lightcycler)	LW2225W (384 Well, ABI type)	Plate	Thermal Cycler Model	Thermal Cycler Make
											LineGene 96 series	Alpha Labs (Bioer)
											7000	Applied Biosystems
					✓						7300 / 7500	Life Technologies
					✓				✓		7900 HT / Quantstudio (DX) / ViiA7 (DX)	Thermo Fisher
	✓										7500 FAST / FAST DX / 7900 HT FAST	Thermo Fisher
	✓										Step One plus / ViiA7 FAST / DX FAST	
											Optical	Biometra
✓		✓	✓	✓	✓	✓					CFX 96 Touch / CFX Connect	Bio Rad (MJ Research)
✓		✓	✓	✓	✓	✓					CFX 96 Touch Deep Well	
✓			✓	✓	✓	✓	✓	✓	✓		CFX 384 Touch	Eppendorf
			✓	✓	✓	✓					iCycler iQ <sup>®</sup> / iQ <sup>™</sup> 5 / MyiQ2 <sup>™</sup> / MyiQ <sup>™</sup> 2	
			✓	✓	✓	✓					Chromo4 <sup>™</sup> System	
			✓	✓	✓	✓					DNA Engine Opticon <sup>®</sup> 2 / Mini Opticon	
		✓	✓	✓	✓	✓		✓			Mastercycler ep Realplex <sup>®</sup> (4)	Eppendorf
✓		✓	✓	✓	✓	✓					Lightcycler 96 / 480	
✓		✓	✓	✓	✓	✓					Mx3000P / Mx3005P	Stratagene
											PrimeQ	Techne

## Sequencer Plate Compatibility Chart

LW2970 (Semi-skirted)	LW2214 (Semi-skirted, FAST)	LW2230W (Semi-skirted, Low Profile, Lightcycler)	LW2210 (Semi-skirted, Low Profile)	LW2215 (Semi- skirted, Straight Lines)	LW2920 (Skirted)	LW2216 (Skirted)	LW2960 (384 Well)	LW2220 (384 Well, Lightcycler)	LW2225W (384 Well, ABI type)	Plate	Thermal Cycler Model	Thermal Cycler Make
	✓										310	Applied Biosystems
	✓										3130 / XL	Life Technologies
	✓										3500 / XL / XL DX / DX	Thermo Fisher
											3730 / XL	Transgenomic
					✓	✓					Wave 3500	

## Sealing Options

LW2141, LW2190, LW2222, LW2525, foils & films	LW2905, LW2915, LW2925, foils & films	LW2141, LW2190, LW2222, LW2525, foils & films	foils & films	foils & films	Foils & films					

This chart is intended as a guide only

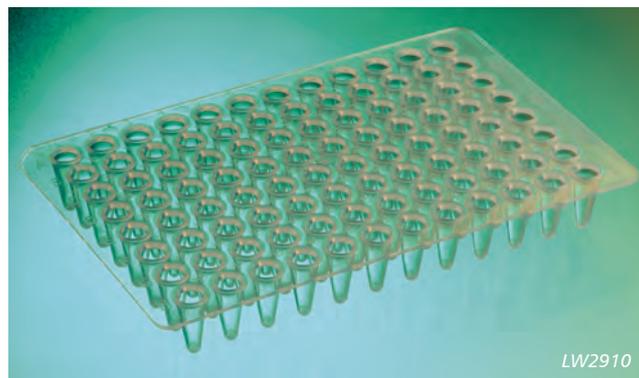
## PCR Plates

Alpha Laboratories' range of PCR plates offers you a wide choice for compatibility with most Thermal Cyclers currently available. The 96 and 384-Well plates are thin walled with excellent thermal transfer for reproducible results and maximum yields.

All plates have a low rim around each Well, minimising cross-contamination, and can be sealed using our adhesive films and foils, or strip caps. They are also alphanumeric Well-indexed and conform to standard SBS footprints.

All PCR plates are guaranteed and certified free from RNase, DNase, DNA and Pyrogens. Supplied in re-sealable bags.

*For specific instrument compatibility of Alpha plates – please refer to the table on the previous page.*



LW2910



LW2902



LW2200

### Amplify Small PCR Plates

Catalogue Number	Description	Pack Size
LW2901	Amplify non-skirted 48-Well PCR Plate	50
LW2900	Amplify non-skirted 24-Well PCR Plate	50

### Amplify Non-Skirted 96-Well PCR Plates

Catalogue Number	Description	Corner Cut	Pack Size
LW2902-10	Amplify PCR Plate	H12	10
LW2902	Amplify PCR Plate	H12	100
LW2910-10	Amplify PCR Plate, low profile	A1	10
LW2910	Amplify PCR Plate, low profile	A1	100
LW2200-10	PCR Plate, black alphanumeric	A12	10
LW2200	PCR Plate, black alphanumeric	A12	100
LW2203-20	PCR Plate, low profile, black alphanumeric	H12	20
LW2203	PCR Plate, low profile, black alphanumeric	H12	100
LW2206-10	Chimney top PCR Plate, black alphanumeric	H12	10
LW2206	Chimney top PCR Plate, black alphanumeric	H12	100



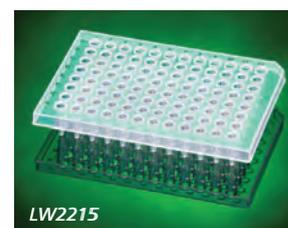
LW2203



LW2214

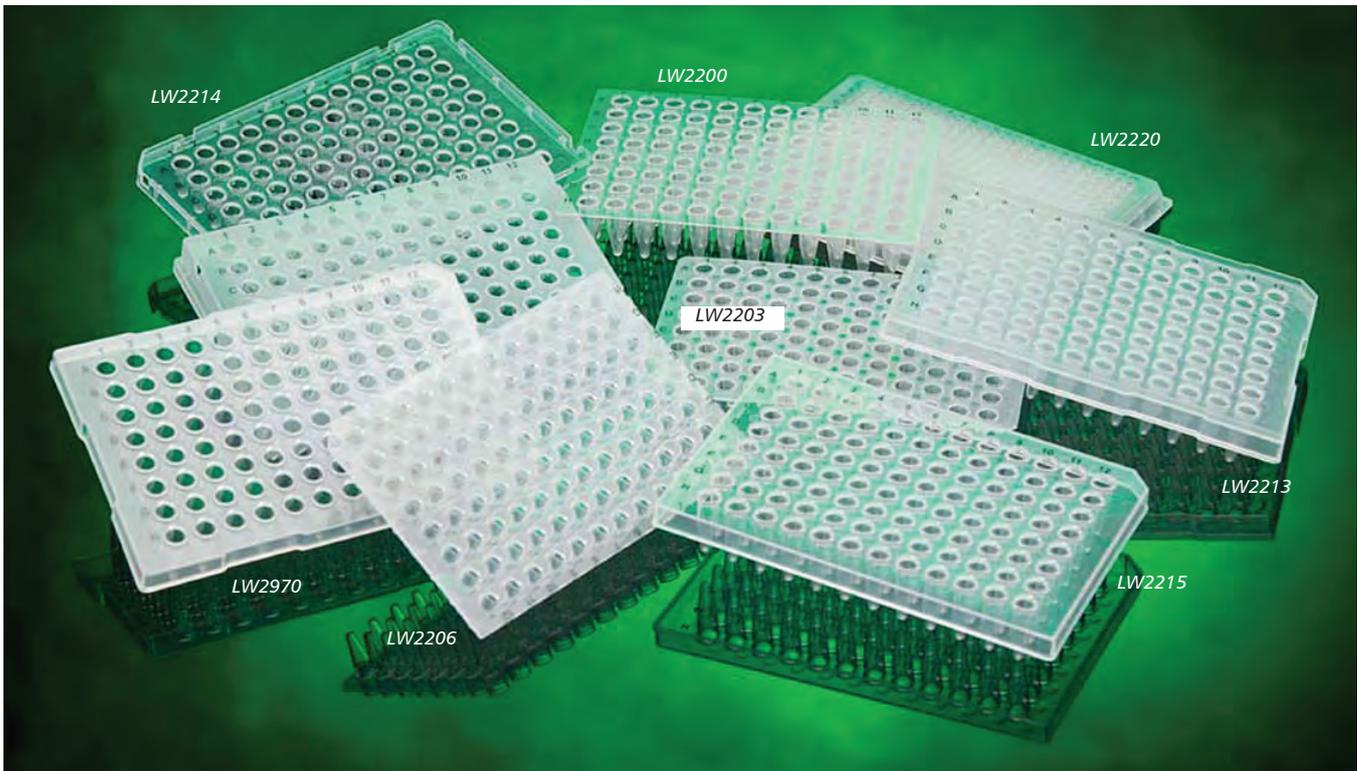


LW2206



LW2215

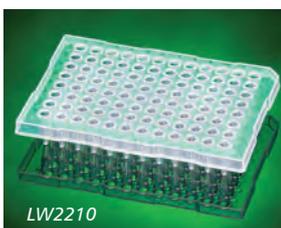
## PCR Plates



For barcoded and 384-Well plates, see next page.

### Amplify Semi-Skirted 96-Well PCR Plates

Catalogue Number	Description	Corner Cut	Pack Size
LW2940-10	Amplify PCR Plate (Corning type)	A1	10
LW2940	Amplify PCR Plate (Corning type)	A1	100
LW2950-10	Amplify PCR Plate (Perkin Elmer type)	A12	10
LW2950	Amplify PCR Plate (Perkin Elmer type)	A12	100
LW2213-10	Raised perimeter, PCR Plate, black alphanumeric	A12	10
LW2213	Raised perimeter, PCR Plate, black alphanumeric	A12	100
LW2970-10	Amplify PCR Plate, black alphanumeric	A12	10
LW2970	Amplify PCR Plate, black alphanumeric	A12	100
LW2210-10	Amplify PCR Plate, low profile, black alphanumeric	A12	10
LW2210	Amplify PCR Plate, low profile, black alphanumeric	A12	100
LW2214-10	FAST PCR Plate, black alphanumeric	A1	10
LW2214	FAST PCR Plate, black alphanumeric	A1	100
LW2215-10	Straight-sided PCR Plate, black alphanumeric	A12	10
LW2215	Straight-sided PCR Plate, black alphanumeric	A12	100
LW2230W-10	PCR Plate, low profile, white, black alphanumeric	H12	10
LW2230W	PCR Plate, low profile, white, black alphanumeric	H12	100



### Amplify Full-Skirted 96-Well PCR Plates

Catalogue Number	Description	Corner Cut	Pack Size
LW2920-10	Amplify PCR Plate	A1	10
LW2920	Amplify PCR Plate	A1	100
LW2216-10	PCR Plate, low profile natural black alphanumeric	A12	10
LW2216	PCR Plate, low profile natural black alphanumeric	A12	100

## Barcoded PCR Plates

### Standard Labelled Plates

#### Barcode labels



- Label size approximately 5 x 50mm

#### Coding Code 128

Incorporated in the code is a non-repeating numeric sequence in both barcode and human readable format.

*Note: as the code is guaranteed non-repeating, it is possible that any case of plates purchased may not contain a continuous, unbroken, sequence of labels.*

#### 96-Well Barcoded Plates

Catalogue Number	Description	Barcode Position	Pack Size
LW2215-BAR	Semi-skirted, "straight side", natural	H1:H12	100
LW2230W-BAR	Semi-skirted, low profile, "Lightcycler-type", white	A1:A12	100

### Custom-Labelled Plates

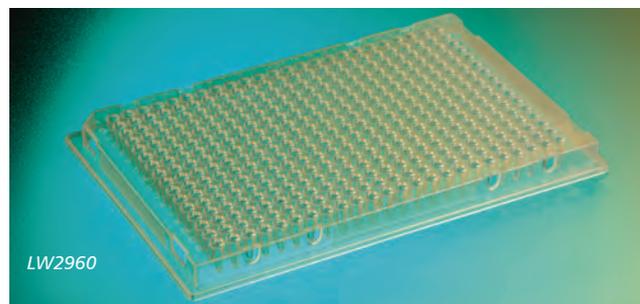
Other PCR and Deep Well plates can be barcode labelled or additional barcodes can be added to the plates detailed above.

Please contact your Alpha Laboratories Account Manager to discuss your requirements.

All custom orders have a minimum of 2,000 plates/parts per order.

## PCR Plates

### Amplify 384-Well Skirted PCR Plates



Our 384-Well plates have been specifically designed for high throughput PCR with a 40µl capacity for reaction volumes of 2 - 30µl. Also available as opaque white for luminescence based procedures.

- Skirted for bar-coding or labelling
- Can be sealed with adhesive foils or films

#### Amplify 384-Well PCR Plates

Catalogue Number	Description	Pack Size
LW2960	Amplify 384-Well skirted PCR Plate, natural	100 (10x10)
LW2922W	Amplify 384-Well skirted PCR Plate, white	100 (10x10)

### Amplify 384-Well PCR Plates for LightCycler® and ABI Instruments



This fully skirted 384-Well PCR plate is ideally suited for your critical high-throughput procedures. Each Well has a nominal working volume of 25µl. Alphanumeric indexing is printed in black for easy identification of samples.

ABI (Life Technologies) type plate has an orientation cut at position A24. For LightCycler® type plates orientation cuts are at A24 and P24.

#### Amplify 384-Well PCR Plate

Catalogue Number	Description	Pack Size
LW2225	384-Well white PCR Plate, ABI type	10 x 10
LW2220	384-Well PCR Plate, LightCycler-type	100 (10x10)
LW2220W	384-Well white PCR Plate, LightCycler-type	10 x 10

## 96-Well Microtitre Plates

Alpha's shallow, 96-Well, microtitre plates incorporate a moulded alphanumeric index with rounded corners at positions A1 and H1 for easy orientation. They are manufactured from uncoated, transparent polystyrene. The static-free plates also feature raised Well rims to prevent cross-contamination. They are available sterile or non-sterile in a choice of U, V or Flat bottom Wells to suit your application. Microtitre plate lids are also available, free from markings for optimal visibility, with a raised rim for convenient stacking of plates. Footprint 128 x 86mm.



96-Well Microtitre Plates		
Catalogue Number	Description	Pack Size
MP3020	96-U-Well Microplate, Polystyrene, Non-Sterile	20x5
MP3030	96-U-Well Microplate, Polystyrene, Sterile	20x5
MP3040	96-V-Well Microplate, Polystyrene, Non-Sterile	20x5
MP3050	96-V-Well Microplate, Polystyrene, Sterile	20x5
MP3060	96-Flat-Well Microplate, Polystyrene, Non-Sterile	20x5
MP3070	96-Flat-Well Microplate, Polystyrene, Sterile	20x5
MP3080	Lid for Microplates, Polystyrene, Non-Sterile	20x5
MP3090	Lid for Microplates, Polystyrene, Sterile	20x5

- **U-Well** – Round bottom Wells improve washing efficiency and the absence of sharp corners makes these ideal for agglutination tests. Well capacity 300µl.
- **V-Well** – Conical bottom Wells are a must when optimal sample recovery is a priority. Well capacity 230µl.
- **F-Well** – Flat bottom Wells are ideal when making optical measurements such as colorimetric determinations or microscopy work. Well capacity 350µl.

## 96-Well Deep Well Plates

### Deep Well Plates – Round Aperture

Deep Well microtitre plates are perfect for high throughput screening. Conforming to the SBS footprint these plates are compatible with leading robotic sample processors, automated liquid handling systems and 8- or 12-channel pipettes.

Suitable for numerous applications including combinatorial chemistry, cell or bacterial culture, DNA sequencing or library storage.

96-Well Deep Well Plates – Round Aperture		
Catalogue Number	Description	Pack Size
LW9435	96-Deep Well Microplate, 1.2ml, Polystyrene, Round Bottom, Non-Sterile	4 x 6
LW9436	96-Deep Well Microplate, 1.2ml, Polystyrene, Round Bottom, Sterile	4 x 6
LW9445	96-Deep Well Microplate, 1.2ml, Polypropylene, Round Bottom, Non-Sterile	4 x 6
LW9446	96-Deep Well Microplate, 1.2ml, Polypropylene, Round Bottom, Sterile	4 x 6
LW9455	Pierceable Mat Cover, Non-Sterile for 1.2ml Plates	24
LW9456	Pierceable Mat Cover, Sterile for 1.2ml Plates	24

These plates have round aperture Wells, ø6.7mm, with a U-shaped bottom and incorporate a moulded alphanumeric index and a cut corner at position H1 for easy orientation. Well capacity is 1.2ml uncapped (when capped with the polyolefin and elastomer sealing mat the capacity will be 1.0ml). Available in transparent polystyrene (frosted Well bottoms) with a centrifuge rating of 3000g (when using a microtitre plate rotor) or opaque, DMSO resistant polypropylene with a rating of 6000g. Polypropylene plates are ideal for cold storage with a temperature range of -196C to +121C (sealing mats have a range of -80C to +80C). Both plates and pierceable sealing mats are available in sterile or non-sterile format.

**SBS  
footprint**



## Deep Well Plates – Square Aperture

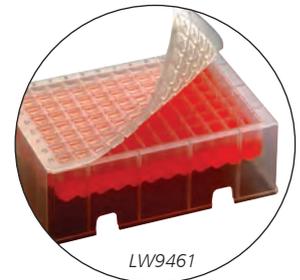
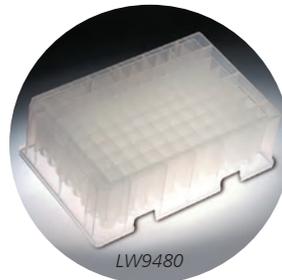
Alpha's square, 8.3mm aperture Deep Well plates are manufactured from tough, DMSO-resistant polypropylene. Suitable for use with sealing films or autoclavable, silicone sealing mats.

**SBS footprint**

The round bottom plates have a Well capacity of 2.2ml, moulded alphanumeric index and orientation notches at positions A1 and H1. The plates with conical bottom Wells are available in a choice of 1.2ml or 2.2ml Well capacity. These plates have a printed alphanumeric index and single orientation notch at H1.



96-Well Deep Well Plates – Square Aperture		
Catalogue Number	Description	Pack Size
LW9480	96-Well Deep Well Plate, 2.2ml, Polypropylene, Round Bottom, Non-Sterile	24
LW9460	96-Well Deep Well Plate, 2.2ml, Polypropylene, Conical Bottom, Non-Sterile	5
LW9461	96-Well Deep Well Plate, 1.2ml, Polypropylene, Conical Bottom, Non-Sterile	10



## Organised Microtubes



A great alternative to Deep Well Plates, Alpha's racked microtubes conform to the SBS footprint and are just as versatile. Available in 8- or 12-tube strips or individual tube formats, organised microtubes can offer greater flexibility when you need to access a single sample or sample set. These autoclavable, lidded racks and tubes are manufactured from tough polypropylene and perfectly suited to cold storage. Racked tube strips feature a printed alphanumeric index on the rack, a clear lid free from markings (a cardboard index card is provided) and orientation notches at position H1.

**SBS footprint**

The individual, racked tubes are supplied in a rack with a moulded alphanumeric index and a frosted lid. Refill tubes are available. Compatible plug cap strips are available in both 8- and 12-strip formats, manufactured from non-autoclavable, low-density polyethylene; both sterile and non-sterile options are offered. Each cap features an individual tab to aid removal and strips can be easily cut into individual caps if required.



### Organised Tubes and Caps

Catalogue Number	Description	Pack Size
<b>Racked Tubes - Strips</b>		
LW9500	1.2ml Organised Tubes, Racked 12 strips of 8 NS	10 x 96
LW9505	1.2ml Organised Tubes, Racked 12 strips of 8 tubes, Sterile	10 x 96
LW9520	1.2ml Organised Tubes, Racked 8 strips of 12 NS	10 x 96
LW9510	1.2ml Tubes in Strips of 8 Tubes Refill NS	125 x 8
LW9530	1.2ml Tubes in Strips of 12 Tubes Refill NS	80 x 12
<b>Racked Tubes - Individual</b>		
QS845TP	1.2ml Microtube Rack with 96 Individual Tubes, Non-Sterile	10 x 96
QS845TPS	1.2ml Microtube Rack with 96 Individual Tubes, Sterile	10 x 96
QS845	1.2ml Tubes, Loose	1000
<b>Cap Strips</b>		
QS847	Strips of 8 Caps, Non-Sterile	120 x 8
QS847S	Strips of 8 Caps, Sterile	120 x 8
LW9550	Strip of 12 Caps, Non-Sterile	80 x 12
LW9540	Strip of 8 Caps, Non-Sterile	125 x 8
LW9555	Strip of 12 Caps, Sterile	80 x 12

## 384-Well Microplates and Deep Well Plates



LW9600



LW9602 and LW9601

384-Well Plates are perfect for compound storage and handling of biological samples. The rounded Well bottom facilitates aspiration. Suitable for use with DMSO and biological buffers.



- Suitable for DMSO
- Conforms to SBS standards
- Autoclavable

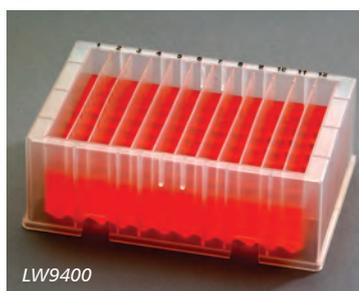
### 384-Well Microplates

Catalogue Number	Description	Pack Size
LW9600	120µl 384-Well Plate, Polypropylene	4 x 6
LW9601	200µl 384-Deep Well Plate, Polypropylene	4 x 6
LW9602	400µl 384-Deep Well Plate, Polypropylene	4 x 6

## Reagent Reservoirs

Our 12-Channel reservoir is manufactured from durable, polypropylene and conforms to SBS footprint so it is ideal for use with automated workstations whilst equally suited to use with a multichannel pipette. Each of the twelve reservoirs is clearly numbered and has a generous capacity of 22ml. The base of each reservoir channel is V-shaped to minimise reagent wastage. These reservoirs can be easily covered with sealing films or the square section sealing mat LW9465.

Our single Well re-useable reagent troughs are manufactured from durable, chemical resistant polypropylene and may be autoclaved. Suitable for use with both 8- and 12-channel pipettes, the V-shaped basins are designed to minimise reagent waste. These un-lidded troughs have a capacity of 120ml and stack neatly for compact storage when not in use.



LW9400



783-500

Our lidded, 175ml reservoir has moulded volume graduations and a reinforced base to prevent wobbles on the bench and to avoid spillage. The reservoir lid is attached with ball and socket hinges and can be easily removed for convenience when the reservoir is in use. The latched lid provides a secure closure for storing reagents and the perimeter ridge on the lid makes stacking reservoirs easy and prevents them from sliding.



LW9570

### Reagent Reservoirs

Catalogue Number	Description	Pack Size
LW9400	12-Channel Reservoir, Polypropylene	20
783-500	120ml Reagent Trough	16
LW9570	175ml Lidded Reservoir	10

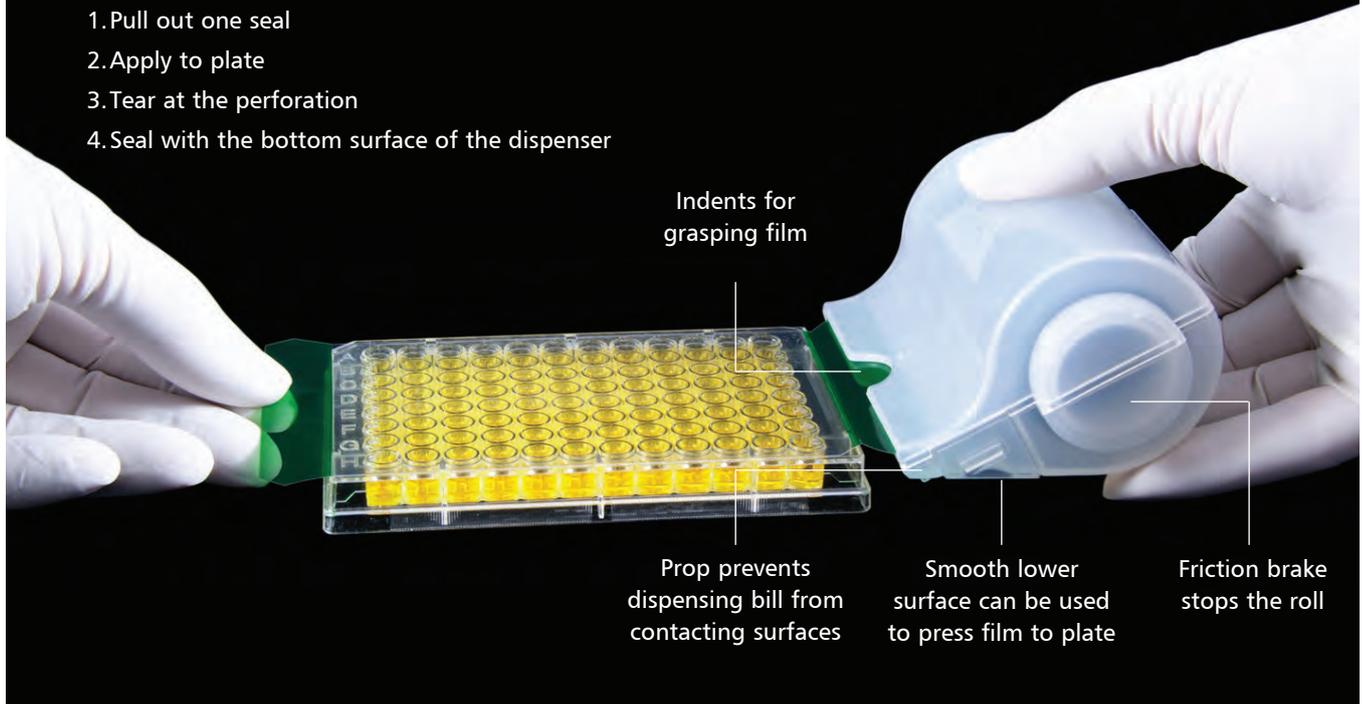
## Adhesive Plate Seals for Microtitre and Deep Well Plates

### SealMate™ System for Adhesive Microplate-Sealing Films

*“a revolutionary way of applying sealing films to microplates”*

It's easy!

1. Pull out one seal
2. Apply to plate
3. Tear at the perforation
4. Seal with the bottom surface of the dispenser



- Convenient, easy film application for microplates
- Three times faster than sheet films
- Inexpensive applicator
- Reduced waste; no protective backing to remove and discard
- Smooth lower surface for pressing film to the plate
- Available sterile and non-sterile

Excel Scientific's unique SealMate™ system provides a convenient new method for sealing standard-format microplates with adhesive films. The system includes a moulded polypropylene dispenser with a hinged "clamshell" design and sealing films supplied in a novel sheeted-roll configuration.

Available with SealPlate films for ELISA, EIA, and similar assays (see LW2770 on page 118) or AeraSeal films for cell and tissue culture applications (see LW2782 on page 119).

The SealMate™ dispenser provides a protective enclosure for films on the roll prior to dispensing. Individual films on the roll are delineated by non-adhesive colour bands that serve as end-tabs for positioning the films on the microplates.

Each non-adhesive band contains two perforations, the first of which, bounded by a small indent at the edges, tears easily to separate the sheet being dispensed from the next sheet on the roll. The second perforation permits the end-tab to be removed from the plate once the film has been applied.

These unique features contribute to ease and usability:

- The SealMate™ system reduces laboratory waste because the film is rolled on itself with no extra paper or plastic liner to be discarded before sealing the plate
- Each SealPlate roll contains films to cover 100 microplates
- Each AeraSeal roll contains films to cover 50 culture plates

#### SealMate™ System

Catalogue Number	Description	Pack Size
LW2700	SealPlate Starter Kit, Non-Sterile - SealMate Dispenser + 2 Rolls of SealPlate Films	1 Kit
LW2702	SealPlate Refill Roll	2
LW2704	AeraSeal Starter Kit, Non-Sterile - SealMate Dispenser + 2 Rolls of AeraSeal Films	1 Kit
LW2706	AeraSeal Refill Roll	2

*Sterile kits and refills also available - see our website*

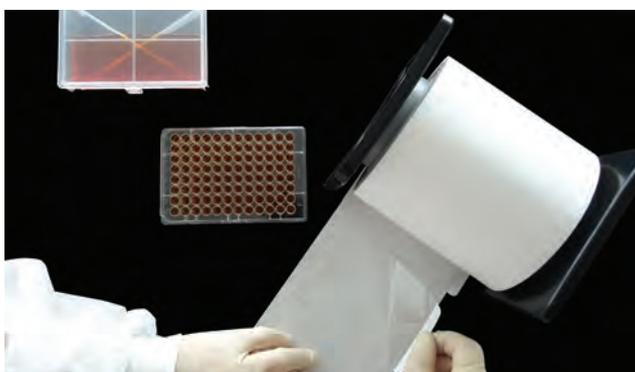
## RollMate™ Adhesive Microplate Sealing Films

Pre-scored seals in a convenient, easy to use roll format.

- An economical, efficient way to rapidly seal microplates; faster than applying single sheeted film
- Self-standing, non-slip supports hold pre-scored film roll securely in place for quick and easy dispensing
- Continuous backing liner can be torn off or fed directly into a waste basket for disposal
- Roll tension can be easily adjusted to user preference (e.g. loose, tight)
- High integrity packaging prevents damage during transit; poly bag eliminates dust and particulate contamination
- Dispenser is made from material which can be recycled

Available in 2 types of seal:

### SealPlate® RollMate™

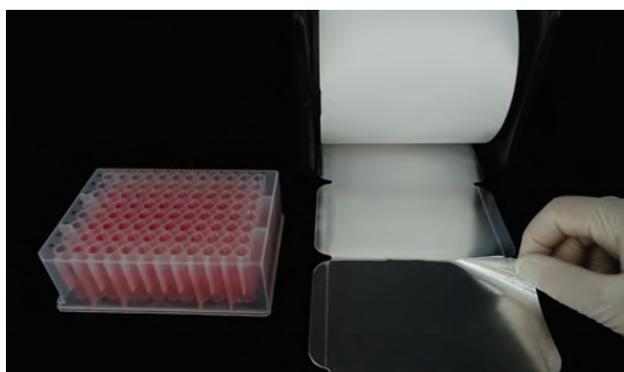


Application: Ideal for ELISA, incubation and storage

Temperature Range: -40C to +120C

- SealPlate film minimises evaporation, reduces cross-contamination and prevents spillage
- Eliminates the “edge effect”, excess evaporation in the outside Wells, which can occur with other films and plate lids
- Useful as a simple cover to protect samples from external contamination, dust and debris
- 50µm rigid polyester film features good clarity and easy handling
- Single, writable end-tab for easy application and plate identification

### FoilSeal™ RollMate™



Application: Ideal for standard PCR, long-term storage, light sensitive assays and robotics

Temperature Range: -80C to +120C

- Certified DNase- & RNase- free
- Excellent chemical resistance (e.g. DMSO)
- 50µm aluminium foil minimizes shredding during removal; ideal for cold storage
- Conformable foil allows visual verification of seal security around each Well
- Pierceable with a pipette tip or robotic probe for direct sample recovery
- Specially formulated adhesive provides an excellent seal to minimise evaporation, reduce cross-contamination and prevent spillage
- Removes easily and cleanly from plate surface

#### SealPlate® RollMate™

Catalogue Number	Description	Pack Size
SP2-RL-500	SealPlate RollMate 500 sheets per roll	Each

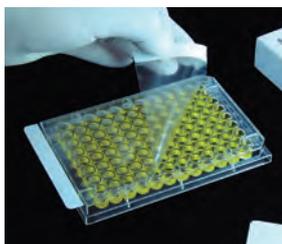
#### FoilSeal™ RollMate™

Catalogue Number	Description	Pack Size
F2-RL-500	FoilSeal RollMate 500 sheets per roll	Each



## SealPlate® Sealing Films for ELISA, EIA and Similar Assays

50µm thickness polyester sealing films minimise evaporation during incubation, prevent spillage and contamination between Wells, and provide a secure seal, not just a cover.



Secure sealing of all Wells eliminates "edge effects" in sensitive ELISA assays. SealPlate® sealing films can also be used with tissue-culture plates for short-term storage, incubation, and containment of biohazards. SealPlate® sealing films are non-pierceable. ThinSeal™ polyester sealing films are just 25µm thick, clearer and marginally pierceable.

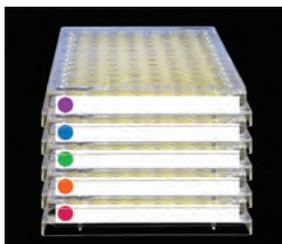
- Functional temperature range from -40C to +120C
- Available sterile and non-sterile

### SealPlate® Sealing Films

Catalogue Number	Description	Pack Size
LW2770	SealPlate® Sealing Films, Non-Sterile	100
LW2771	SealPlate® Sealing Films, Sterile	100
LW2774	ThinSeal™ Sealing Films, Non-Sterile	100
LW2775	ThinSeal™ Sealing Films, Sterile	100

## SealPlate® ColorTab™ Sealing Films

Applicable for the same incubations as standard SealPlate® but these sealing films are supplied with five dot colours (green, lavender, orange, red, blue) in non-sterile single-colour packs of 100 and in assorted packs of 50 containing five individual-colour packs of 10, non-sterile or sterile.



- Colour dots and white labelling area on end tabs
- Second tab can be separated for lab-notebook insertion
- End tabs can be left on plate even if centre of sealing film is removed

*U.S. and other patents pending.*

### SealPlate® ColorTab™ Sealing Films

Catalogue Number	Description	Pack Size
SP-IDG-100	SealPlate® ColorTab™ Sealing Films, Green	100
SP-IDL-100	SealPlate® ColorTab™ Sealing Films, Lavender	100
SP-IDO-100	SealPlate® ColorTab™ Sealing Films, Orange	100
SP-IDR-100	SealPlate® ColorTab™ Sealing Films, Red	100
SP-IDB-100	SealPlate® ColorTab™ Sealing Films, Blue	100
SP-IDA-10	SealPlate® ColorTab™ Sealing Films, Assorted	50

## SealPlate® MiniStrips™ Sealing Films

Identical to SealPlate® films and can be used for the same incubations, but designed for sealing only one or two 8-Well rows at a time on either strip-Well or standard plates whenever rows must be selectively protected or accessed.



- Can be used as secondary seal to cover sealing films that have been pierced
- Two tabs on each strip for easy application and removal
- Perforated tabs can be removed or sealed around plate edge

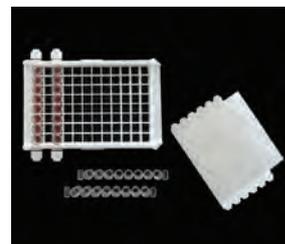
*(NOTE: Spacing does not permit simultaneous application of more than two strips.)*

### SealPlate® MiniStrips™ Sealing Films

Catalogue Number	Description	Pack Size
LW2772	SealPlate® MiniStrips™ Sealing Films, Non-Sterile	200
SPS-2X8-50	SealPlate® MiniStrips™ Sealing Films, Sterile	200

## EZcap™ General Purpose FilmStrips™

EZcap™ General Purpose FilmStrips™, for sealing a single 8-Well row of a 96-Well plate or an ELISA strip-Well plate.



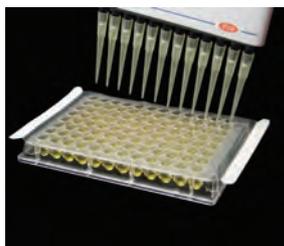
- Certified DNase- & RNase- free
- Each sheet contains 8 FilmStrips on a continuous backing liner for ease of use
- FilmStrips can be peeled and applied individually or two-at-a-time for increased efficiency
- 50µm polypropylene film features good clarity and easy handling
- Specially formulated adhesive provides an excellent seal to minimise evaporation, reduce cross-contamination and prevent spillage

### EZcap™ General Purpose FilmStrips™

Catalogue Number	Description	Pack Size
LW2738	EZcap™ General Purpose FilmStrips™	400
LW2739	EZcap™ General Purpose FilmStrips™ Sterile	400

## EZ-Pierce™ Sealing Films

Easily pierceable, 70µm thick, polyethylene with acrylic adhesive, EZ-Pierce™ sealing films allow direct sample recovery with single or multi-channel pipettors and robotic probes.



- Easily pierceable with pipette tips or robotic probes
- Chemical resistant
- Functional temperature range -40C to +90C

Completing application of sealing films by pressing with the accessory plate roller assures a secure uniform seal around all Wells.

### EZ-Pierce™ Sealing Films

Catalogue Number	Description	Pack Size
EZP-100	EZ-Pierce™ Sealing Films, Non-Sterile	100
EZPS-25	EZ-Pierce™ Sealing Films, Sterile	50

## X-Pierce™ Pre-cut Pierceable Sealing Films for Automation

X-Pierce™ sealing films are 89µm thick vinyl with a 18µm thick adhesive layer, designed for temporary protection from contamination and evaporation for samples in 96-Well plates. For long-term protection after sampling, a continuous sealing film should be applied as a second layer. Sterile product is packaged in 100µm tamper-evident bags of 25.



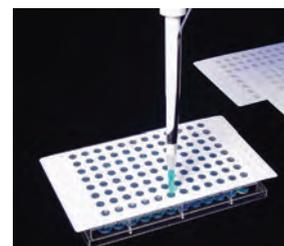
- Sealing film reseals for continued sample protection after sampling
- Temperatures -40C to +90C
- Special hairline X-cuts and thin adhesive prevent fouling or occlusion of probes and tips

### X-Pierce™ Pre-cut Pierceable Sealing Films for Automation

Catalogue Number	Description	Pack Size
LW2788	X-Pierce™ Sealing Films, Non-Sterile	100
XPS-25	X-Pierce™ Sealing Films, Sterile	50 (2 x 25)

## Zone-Free™ Sealing Films

With a 70µm top layer and inert white polypropylene and acrylic adhesive sublayer, this easy-piercing sealing film allows direct sample recovery with single or multichannel pipettors and robotic probes.



- Clear zone above each Well is free of adhesive and easily pierceable
- Clear zones and end tabs facilitate Well alignment and accurate positioning
- Chemical resistant
- Functional temperature range -40C to +90C

*U.S. and other patents pending.*

### Zone-Free™ Sealing Films

Catalogue Number	Description	Pack Size
ZAF-PE-50	Zone-Free™ Sealing Films, Non-Sterile	50

## AeraSeal™ Sealing Films for Cell and Tissue Culture

A 140µm thick hydrophobic porous sealing film with medical-grade adhesive for tissue culture plates, bio-blocks, and 96-Well plates where gas exchange is necessary for cell or bacterial growth. AeraSeal™ sealing films minimise cross-contamination, spillage and evaporation. They allow uniform air and CO<sub>2</sub> exchange for all Wells, during incubation.



- Non-cytotoxic, highly gas permeable
- Easily pierceable with pipette tips or pipettes for sample recovery
- Recommended for temperatures from -20C to +80C

### AeraSeal™ Sealing Films for Cell and Tissue Culture

Catalogue Number	Description	Pack Size
LW2782	AeraSeal™ Sealing Films, Non-Sterile	100
LW2783	AeraSeal™ Sealing Films, Sterile	50 (2 x 25)
LW2720	AeraSeal™ 100m roll for automation	1 Roll

## AlumaSeal CS™ Sealing Films for Cold Storage

Specially formulated aluminium foil sealing films with an adhesive that withstands cold storage at temperatures to -80C. A single non-perforated end tab simplifies application. Simply hold the tab and strip the backing from the body of the sealing film as it lays on the plate to avoid curling.

Recommended temperature range: -80C to +120C. AlumaSeal CS™ sealing films are certified DNase-, RNase- and nucleic-acid-free. Sterile product is packaged in tamper-evident zippered bags of 25, two bags per box.

- Excellent barrier properties to retard evaporation
- Easily pierceable with pipette tips or robotic probes for sample recovery

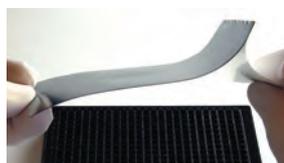


### AlumaSeal CS™ Sealing Films for Cold Storage

Catalogue Number	Description	Pack Size
FC-100	AlumaSeal CS™ Sealing Films, Non-Sterile	100
LW2730	AlumaSeal CS™ Sealing Films, Sterile	50

## AbsorbMax™ Sealing Films for Fluorescence and Photoprotection

203µm thick black vinyl adhesive sealing films for use with 96-Well, 384-Well, and 1536-Well black solid and clear bottom microplates.



The sealing films may be applied to either the top or bottom of the plate. A split backing aids in applying the sealing film properly. Edge cut-outs assist in positioning and accommodate ribs on the plate bottom.



For top-reading fluorescence applications, apply the black sealing film to the base of clear-bottomed plates. For bottom-reading fluorescence, use the black sealing film as a top seal.

Film dimensions are 114.3 x 76.2 mm

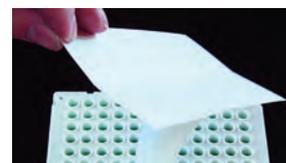
- Protect light-sensitive samples during storage or incubation
- Reduce stray light and crosstalk in fluorescence assays

### AbsorbMax™ Sealing Films

Catalogue Number	Description	Pack Size
BK-50	AbsorbMax™ Black Sealing Films, Non-Sterile	50

## BrightMax™ Sealing Films for Luminescence and Microscopy

BrightMax™ sealing films are 203µm thick white vinyl films with 37µm acrylic adhesive for use with white microplates.



The sealing films may be applied to either the top or bottom of the plate. A split backing aids in applying the sealing film properly. The light-reflective properties of BrightMax plate-sealing films on clear-bottom plates maximize sensitivity of bioluminescence and chemiluminescence assays in bottom-reading luminometers. White films also have an application as a backing matrix for microscopy of punch-out samples from filter plates, for example in ELISPOT assays.

- Recommended temperature range: -40C to +80C.
- White light-reflecting sealing films for use with white microplates
- Can be applied to the top or bottom of the plate
- Maximise intensity and signal-to-noise ratios in luminescence assays
- Can be used for mounting and storage of filters for microscopy, for example in ELISPOT assays

### BrightMax™ Sealing Films

Catalogue Number	Description	Pack Size
LW2795	BrightMax Sealing Film	50

## PCR Plate Sealing

### PCR Plate Sealing Mat

This 96-Well silicon rubber plate sealing mat fits most 96-Well plates, and is suitable for pressure-fit lids. It can be autoclaved and re-used many times.



#### PCR Plate Sealing Mat

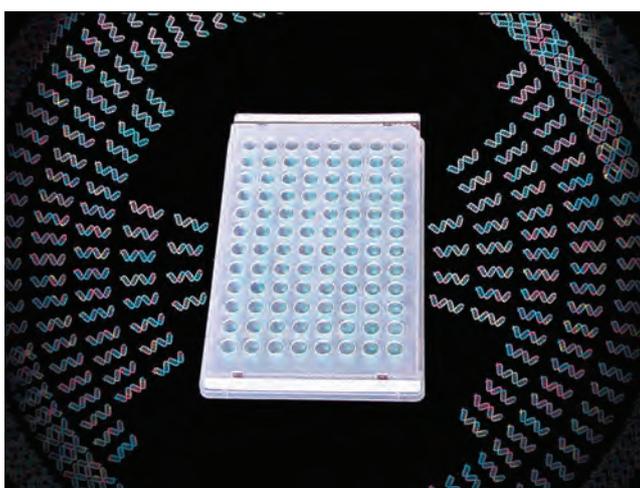
Catalogue Number	Description	Pack Size
LW2221	Sealing Mat for PCR Plates	50 (5 x 10)
LW2221-10	Sealing Mat for PCR Plates	10

## Adhesive Plate Seals for PCR

All our adhesive plate seals are certified free of DNase, RNase and nucleic acids.

For sealing film accessories please see page 126.

### ThermalSeal® Sealing Films for PCR



A 50µm heat-resistant polypropylene sealing film designed for thermal cycling applications, and has sufficient sealing area for all PCR plates.

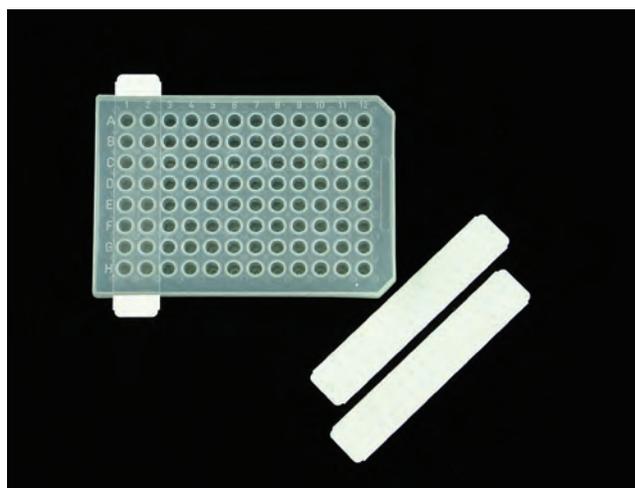
ThermalSeal® sealing films are not pierceable. For applications where piercing with pipette tips or robotic probes is required for product recovery, see AlumaSeal II sealing films. For real-time PCR applications where maximum optical clarity is required, see ThermalSeal RT™, RTS and RT2RR sealing films.

- Heat resistant, recommended for temperatures from -40C to +120C

#### ThermalSeal® Sealing Films for PCR

Catalogue Number	Description	Pack Size
LW2776	ThermalSeal Sealing Films, Non-sterile	100
LW2777	ThermalSeal Sealing Films, Sterile	100

### ThermalSeal® Ministrips



ThermalSeal® MiniStrips™ sealing films are identical to ThermalSeal sealing films (left), but designed for sealing only one or two 8-Well rows at a time on PCR plates or strip tubes. They are supplied in convenient sheets of four. Each sealing film strip is 19.0 x 97.3 mm, including two removable positioning tabs. The long dimension with tabs removed is 76.2 mm. Each package of 200 contains 50 sheets of four sealing film strips.

- Two tabs on each strip for easy application and removal
- Perforated tabs can be removed or sealed around plate edge

#### ThermalSeal® Ministrips™

Catalogue Number	Description	Pack Size
LW2735	ThermalSeal® Ministrips™	200 (4 x 50)

## EZcap™ PCR Sealing Strips™ for PCR

For sealing one 8-Well row of a 96-Well PCR plate or a single PCR 8-tube strip.

- An economical and more user-friendly alternative to strip-caps; no more sore thumbs and fingers guaranteed!
- Precision cut to a smaller dimension to seal one 8-Well row of a 96-Well PCR plate or a single PCR 8-tube strip
- Each sheet contains 8 sealing Strips on a continuous backing liner for ease of use
- Strips can be peeled individually or two-at-a-time for increased efficiency
- Strips can be used to selectively cover one row of a plate to prevent accidental pipetting or to re-seal rows that have been pierced
- Certified DNase- & RNase- free

### EZcap™ PCR FilmStrips™



Application: Ideal for standard PCR, real-time PCR and storage

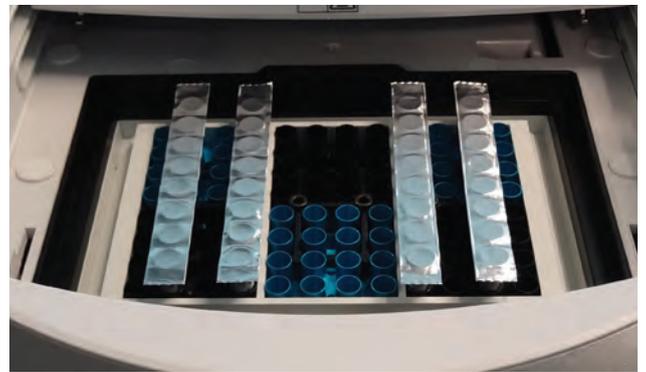
Temperature Range: -40C to +120C

- 50µm clear polyester film is ideal for PCR and qPCR
- Specially formulated adhesive provides an excellent seal to minimise evaporation, reduce cross-contamination and prevent spillage
- Removes easily and cleanly from plate surfaces
- Features two removable end-tabs with perforations for ease of handling, application and removal

#### EZcap™ PCR FilmStrips™

Catalogue Number	Description	Pack Size
LW2736	EZcap PCR FilmStrips	400

### EZcap™ PCR FoilStrips™



Application: Ideal for standard PCR, storage (DMSO resistant), light sensitive assays and robotics

Temperature Range: -80C to +120C

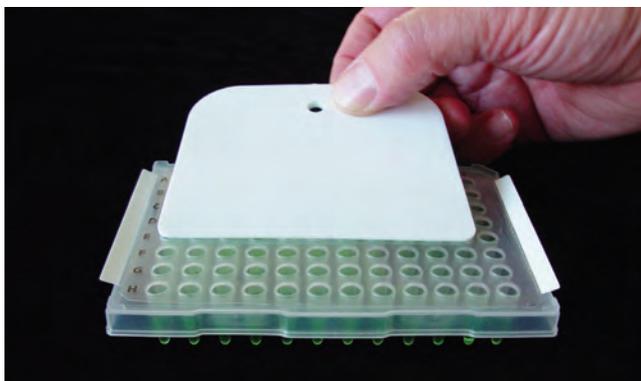
- Excellent chemical resistance (e.g. DMSO)
- 50µm aluminium foil minimises shredding during removal
- Conformable foil allows visual verification of seal security around each Well
- Pierceable with a pipette tip or robotic probe for direct sample recovery
- Specially formulated adhesive provides an excellent seal to minimise evaporation, reduce cross-contamination and prevent spillage
- Removes easily and cleanly from plate surfaces
- Features two end-tabs with perforations for ease of handling, application and removal

#### EZcap™ PCR FoilStrips™

Catalogue Number	Description	Pack Size
LW2737	EZcap PCR FoilStrips	300

## ThermalSeal® Sealing Films for PCR

### ThermalSeal® A Films for PCR and Storage



An advanced version of the classic ThermalSeal® films for PCR. They consist of 50µm thick clear polyester with a 41µm layer of a stronger adhesive formulated for improved protection against evaporation and leakage during thermal cycling. Not designed for Real-Time PCR applications\*. They are designed to fit inside the edge of raised-rim PCR plates. Each pack of films includes one sealing paddle (see photo) for ensuring a firm seal.

- Heat resistant, recommended for temperatures from -40C to +120C

\* for real-time PCR, use ThermalSeal RT™ films - please see the following page.

#### ThermalSeal® A Films for PCR and Storage

Catalogue Number	Description	Pack Size
TSA-100	ThermalSeal A, Non-sterile	100

### ThermalSeal 2™

These improved films for classic thermal cycling applications consist of a 50 µm polyester film with a 41 µm layer of acrylic adhesive. Compared to the original ThermalSeal® films, ThermalSeal 2™ films offer better adhesion, reduced evaporation, longer end tabs for easier handling, and less tendency to tear during removal from the plate. Each sealing film measures 79.4 x 139.7 mm and offers sufficient sealing area for all PCR plates. Length between the perforations with end tabs removed is 125.1 mm. (Not recommended for raised-rim plates; see ThermalSeal A™ films - left.)

ThermalSeal 2 sealing films are not pierceable. For applications where piercing with pipette tips or robotic probes is required for product recovery, see AlumaSeal® sealing films on page 126. For real-time PCR applications where maximum optical clarity is required, see ThermalSeal RT™, RTS™ and RT2RR sealing films on the following pages.

- Heat resistant, recommended for temperatures from -40C to +120C
- Better adhesion; reduced evaporation
- Longer end tabs for easier handling
- Does not tear during removal from the plate
- Easier to apply than aluminum foils, no tendency to roll back

#### ThermalSeal 2™

Catalogue Number	Description	Pack Size
LW2726	ThermalSeal2, Non-Sterile	100



## Specialist Custom Plate Seals Design, Manufacturing and Packaging for OEM

**For special applications, diagnostic kit production etc.**

- Indexed roll formats for automation
- Speciality materials and adhesives
- Custom die-cut shapes and sizes
- Custom printing, packaging and labelling

### Quality Assured

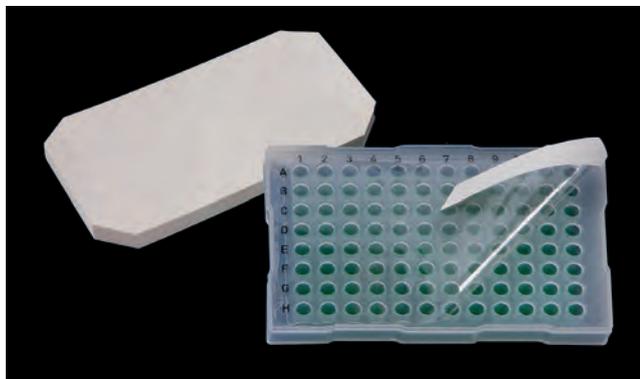
- Stringent QC procedures for all products
- Product consistency lot-to-lot
- Certificates of compliance and sterility

**Contact Alpha Laboratories for more information or a quotation**



## eXTreme™ Sealing Films for PCR, qPCR & Storage

### eXTreme™ Sealing Film Universal Cut



Universal Cut eXTreme sealing films measure 78.3 x 140.5mm and offers sufficient sealing area for all plate types (e.g. flat top and raised-rim). Chamfered corners result in no plate overhang for robotics applications and tight storage conditions. Length between perforations with end tabs removed is 119mm.

#### eXTreme™ Sealing Film

Catalogue Number	Description	Pack Size
LW2734	eXTreme™ Sealing Film Universal Cut	100

### eXTreme™ Sealing Film Large Cut

Large cut eXTreme sealing films are designed for greater coverage which results in a more complete seal around the edges of the plate which can reduce evaporation rates. Larger cut also allows for easier positioning of the film to the plate via edge of plate alignment vs. centering.



- Excellent barrier properties, virtually no sample evaporation or drying
- Two end-tab feature allows for ease of placement of film to plate
- Specially formulated adhesive provides an excellent seal for all plate materials, including polycarbonate
- 50µm polyester film will remove cleanly from plate surfaces with no adhesive stringing or residue and will not tear upon removal

#### eXTreme™ Sealing Film

Catalogue Number	Description	Pack Size
LW2733	eXTreme™ Sealing Film Large Cut	100

## ThermalSeal® Sealing Films for qPCR

### ThermalSeal RT™ Sealing Films for Real-Time PCR

ThermalSeal RT™ sealing films combine an optically transparent polyester sealing film with a strong, ultra-smooth, non-absorbing, non-fluorescing medical-grade adhesive for superior performance in real-time PCR applications. In place of the customary paper backing, ThermalSeal RT™ sealing films have a plastic liner which is easily removed before use and contributes smoothness and extreme optical clarity to the adhesive. Dimensions are 79.4 x 142.9mm for sealing PCR plates. Length between the perforations with end tabs removed is 121.9mm.

- “Brilliant” ultra-high optical clarity
- Heat resistant, recommended for temperatures from -40C to +120C

#### ThermalSeal RT™ Sealing Films for Real-Time PCR

Catalogue Number	Description	Pack Size
LW2786	50µm Thick Sealing Films, Non-Sterile	100

### ThermalSeal RTS™ Sealing Films for qPCR, Storage and Protein Crystallisation

ThermalSeal RTS™ sealing films are optically clear, with low autofluorescence, and are especially suited for real-time qPCR, storage, and protein crystallisation applications. When pressed against the sealing surface, the inert encapsulated silicone adhesive is released to form the strongest available heat-resistant seal around each Well on the plate. Adhesive on non-sealing areas of the film, such as directly over sample Wells, remains encapsulated and inert. Sized to fit within the edges of raised-rim 96-Well plates, their consistent high optical clarity ensures reproducible, reliable, and consistent DNA amplification measurements and crystal detection.

- Non-tacky adhesive layer simplifies handling of film prior to sealing
- Heat resistant, recommended for temperatures from -70C to +100C
- Chemically inert; no extractables except at extreme pH
- DMSO resistant for HTS
- Available as individual sheets or on a 65m roll for HTS automated applications

#### ThermalSeal RTS™ Sealing Films for qPCR

Catalogue Number	Description	Pack Size
LW2790	ThermalSeal RTS Sealing Films, Non-sterile	100
LW2791	ThermalSeal RTS Sealing Films, Sterile	50
LW2724	ThermalSeal RTS 65m roll for automation	Each

## Sealing Films

### ThermalSeal RT2RR™ for Real-Time PCR

50µm polyester sealing films for real-time PCR with the same consistent ultra-high optical clarity as ThermalSeal RT™ sealing films (previous page). This gives more reproducible, reliable, and consistent DNA amplification measurements.

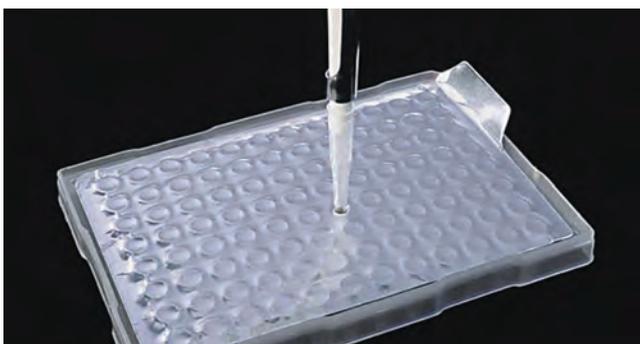
An inert, strong, temperature-resistant adhesive assures reliable sealing around each Well. Two end tabs assist in positioning the sealing film. Easy removal of the end tabs at perforated boundaries prevents lifting and higher evaporation rates that can occur with sealing films that overlap the plate rim. Recommended for specific DNA sequence detection in clinical diagnostics, forensic science and basic research.

- Fit within plate rim to prevent evaporation due to sealing film lifting
- Ultra-high optical clarity
- Heat resistant, for temperatures from -40C to +120C

#### ThermalSeal RT2RR™ Sealing Films for Real-Time PCR

Catalogue Number	Description	Pack Size
TS-RT2RR-100	ThermalSeal RT2RR 50-µm Thick Sealing Films, Non-sterile	100

### AlumaSeal 96™ and 384™ Sealing Films



A 38µm thick aluminum foil sealing film for use with 96- or 384-Well plates.

*Pierceable. Available non-sterile only.*

- Heat and cold resistant, recommended for temperatures from -80C to +120C
- Fits inside rim of raised-rim plate

#### AlumaSeal 96™ Sealing Films

Catalogue Number	Description	Pack Size
F-96-100	AlumaSeal 96 Sealing Films, Non-sterile	100
F-384-100	AlumaSeal 384 Sealing Films, Non-sterile	100

### eXTReme™ FoilSeal™



For high performance under extreme conditions. Ideal for PCR, long term compound storage, light sensitive assays and robotics.

A 48µm soft non-permeable aluminium foil sealing film with 30µm layer of strong acrylic adhesive. Provides an excellent seal for all plate materials (e.g. polystyrene, polypropylene and two component polycarbonate/ polypropylene PCR plates), whilst still removing cleanly from plate surfaces with no adhesive stringing, residue or contamination.

Foils measures 78.3 x 29mm with sufficient sealing area for all plate types (e.g. flat top and raised-rim). Chamfered corners result in no plate overhang for robotics applications. Length between the perforation with end tab removed and the end of the foil seal is 118.1mm.

- Single end-tab features a custom perforation that will not tear during removal
- Excellent barrier properties minimises sample evaporation
- 48µm thick aluminium foil minimises shredding during removal and is ideal for cold storage
- Conformable foil allows visual verification of seal security

#### eXTReme™ FoilSeal™

Catalogue Number	Description	Pack Size
LW2732	eXTReme™ FoilSeal™ Sealing Foil	100

## AlumaSeal® Roll

Adhesive PCR sealing foils on rolls for use with high-throughput automated microplate sealers.

The Roll-Seal format provides reliable and efficient sealing at a lower cost per plate with minimal user intervention.

Robust static-free packaging provides protection during shipment and facilitates accurate alignment and adhesion.



### AlumaSeal® Rolls

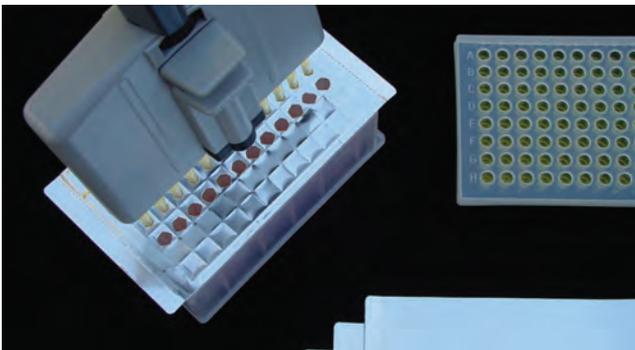
Catalogue Number	Description	Pack Size
LW2722	AlumaSeal® 100m Roll-Seal™ for Automation	Each

## AlumaSeal II™ for PCR and Cold Storage

A 36µm soft, non-permeable aluminum foil sealing film with strong medical-grade adhesive, AlumaSeal II™ sealing films eliminate the need for heat-sealing devices or mats during thermal cycling. Each sealing film offers sufficient sealing area for all PCR plates. Compared to other aluminum foils, AlumaSeal II™ has less tendency to roll back on itself when removing the backing paper and conforms well to the plate during application.

Sterile product is packaged in two 100µm tamper-evident bags of 25.

- Easily pierceable with single or multichannel pipettes and robotic probes
- Heat and cold resistant, recommended for temperatures from -80C to +120C
- Excellent barrier properties, virtually no sample evaporation or drying during incubation or storage

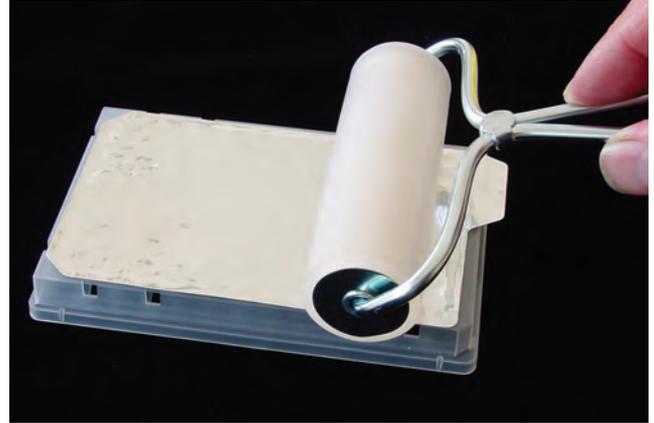


### AlumaSeal II™ Sealing Films for PCR and Cold Storage

Catalogue Number	Description	Pack Size
LW2780	AlumaSeal II Sealing Films, Non-sterile	100
LW2781	AlumaSeal II Sealing Films, Sterile	50 (2 x 25)

## Sealing Film Accessories

### Plate Roller

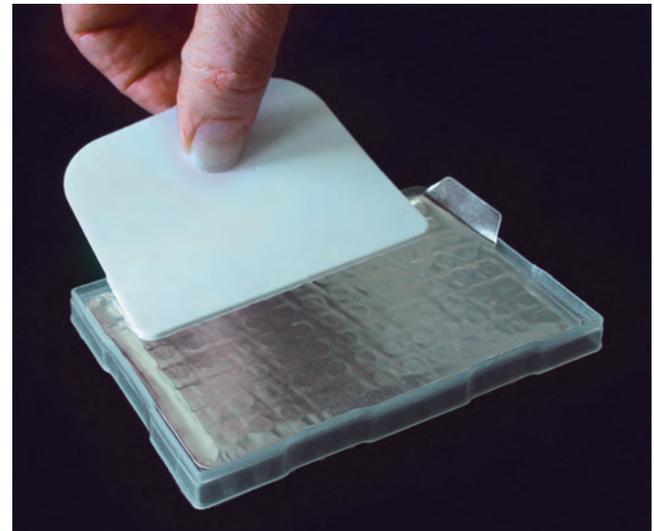


Completing application of sealing films by pressing with the accessory plate roller assures a secure uniform seal around all Wells on 96-Well, 384-Well, and 1536-Well plates.

### Plate Roller

Catalogue Number	Description	Pack Size
RL-PLT-01	Accessory: Plate Roller	1

## Film-Sealing Paddles



Alternative to plate roller for pressing sealing film to assure a secure uniform seal around all Wells on 96-Well, 384-Well, and 1536-Well plates. Better than plate roller for use with raised-rim plates as the paddle fits within the rim of the plate.

### Film-Sealing Paddles

Catalogue Number	Description	Pack Size
PDL-5	Film-Sealing Paddles, Non-sterile	50

## Organise Your Samples Versatile Racks for Laboratory and Freezer Storage

Our practical, space saving racks help you organise precious bench and freezer space, ensuring your valuable samples are safely stored and easily accessible.

We have versatile storage solutions for a full range of PCR tubes, microtubes, cryovials, 15ml and 50ml tubes. A choice of attractive colours gives you the option of colour coding your storage for additional convenience.

Specialist racks for PCR help with workflow and our Isofreeze® cooled racks ensure temperature sensitive samples remain protected when out on the bench.

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## MultiRack™



The MultiRack™ is available in three models to accommodate a full range of laboratory test tubes and centrifuge tubes up to 30mm in diameter. Made of highly resistant acetal polymer, it will not shatter or stain in contact with most laboratory chemicals. It also has no coating that can chip, peel or rust in a water bath.

The MultiRack™ is made of three tiers to facilitate the insertion and stability of tubes. The base tier has rounded Wells with drain holes. Convenient handles on each side of the rack will ensure a safe grip when carrying it around. Interlocking feet allow stacking. It is also autoclavable at 121C for 20 minutes.

- Lightweight and stackable – saving space
- Ideal for incubators, refrigerators, freezers, fume hoods, bench-tops
- Submersible (sinks) and maintains stability
- For tubes up to 13mm, up to 16mm and up to 30mm
- Dimensions 293 x 115 x 65mm
- Available in five colours

### MultiRack™

Catalogue Number	Description	Pack Size
<b>13mm</b>		
LW6113B	13mm MultiRack 84 Position, Blue	2
LW6113G	13mm MultiRack 84 Position, Green	2
LW6113L	13mm MultiRack 84 Position, Lilac	2
LW6113O	13mm MultiRack 84 Position, Orange	2
LW6113Y	13mm MultiRack 84 Position, Yellow	2
<b>16mm</b>		
LW6116B	16mm MultiRack 60 Position, Blue	2
LW6116L	16mm MultiRack 60 Position, Lilac	2
LW6116O	16mm MultiRack 60 Position, Orange	2
LW6116Y	16mm MultiRack 60 Position, Yellow	2
<b>30mm</b>		
LW6130B	30mm MultiRack 18 Position, Blue	2
LW6130G	30mm MultiRack 18 Position, Green	2
LW6130L	30mm MultiRack 18 Position, Lilac	2
LW6130O	30mm MultiRack 18 Position, Orange	2
LW6130Y	30mm MultiRack 18 Position, Yellow	2

## Shades Test Tube Racks

For flexibility with flair, you can't beat our 'Shades' range of test tube racks. Designed to hold 60 tubes up to 16mm diameter, these polypropylene racks have 3 tiers. For taller tubes, use with all tiers in place but for shorter tubes, simply unclip the top portion to give a compact 2-tier format.

Ideal for use on the bench, in the freezer or in a water bath, you'll find them a valuable addition to your lab.

Features include:

- Convenient carrying handles
- Stays upright and submersible in water baths
- Suitable for cold storage down to -80C
- Autoclavable at 121C
- Lightweight but surprisingly strong
- Excellent chemical resistance
- Compliant with US FDA requirements
- Dimensions (LxWxH): 270x135x64mm



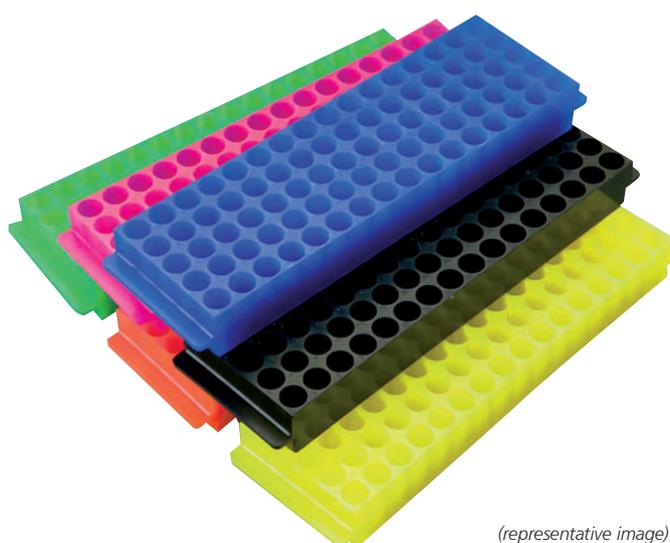
Shades Test Tube Racks		
Catalogue Number	Description	Pack Size
LW6200B-5	3-Tier Shades Test Tube Rack for 60x16mm Tubes - Blue	5
LW6200G-5	3-Tier Shades Test Tube Rack for 60x16mm Tubes - Green	5
LW6200P-5	3-Tier Shades Test Tube Rack for 60x16mm Tubes - Pink	5
LW6200Y-5	3-Tier Shades Test Tube Rack for 60x16mm Tubes - Yellow	5

## 80-position Rack

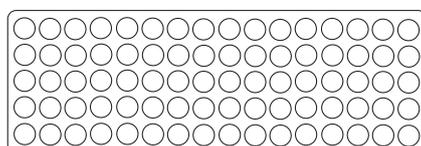
Accommodating a surprisingly large range of tubes, this rack has a multitude of uses.

Suitable for efficient freezer storage of microtube samples and manufactured from virgin polypropylene, it is autoclavable and has a conical base to the tube positions to provide a greater degree of support.

Frosted writing areas, in combination with the assorted colours, give you a choice of identification and marking possibilities.



(representative image)

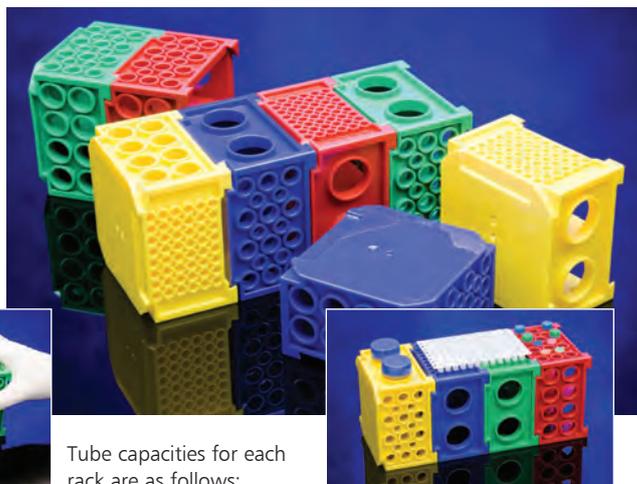


80-position Rack			
Catalogue Number	Description	Dimensions	Pack Size
LW6220AS	80-Position Rack, Assorted	227 x 66 x 27 (W x L x H)	5 racks
LW6220	80-Position Rack, Natural	227 x 66 x 27 (W x L x H)	5 racks

## Combiracks

### Twist-Lock Combirack

The Combirack Twist-Lock comes as a set of 4 brightly coloured, four-sided racks, which can twist and lock together in any arrangement to suit the user. Each rack can hold different sized tubes on each side and can be mixed in different combinations to provide a workstation suitable for many applications including PCR.



Tube capacities for each rack are as follows:

- Made from durable polypropylene
- Single rack dimensions: 108 x 108 x 69mm
- Temperature range: -80 to 121C
- Autoclavable at 121C

#### Combirack Twist-Lock

Catalogue Number	Description	Pack Size
LW5850	Combirack Twist-Lock (Set of 4 racks)	1

Tube Type	Dimension	Quantity
50ml Tube	Max 30mm diameter	2
15ml Tube	Max 18mm diameter	8
1.5 or 2.0ml Microtubes	Max 11mm diameter	12
0.5ml Microtube	Max 8mm diameter	6
PCR Plates (unskirted or semi-skirted 96-Well)		1 fits across 2 racks
8-tube PCR Strips		6
12-tube PCR Strips		8 strips fit across 2 racks
0.2ml PCR Tubes		48

### Four-Way Combirack

The rugged polypropylene construction, the bright colours and the patented design, make the Four-Way Combirack a highly worthwhile addition to your laboratory.

All Four-Way Combiracks are autoclavable and are suitable for use in ultra-low temperature freezers (-90C).

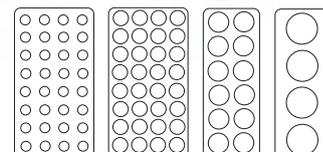
The system can interlock giving an instantly expandable racking system. Simply press two or more of the racks together to increase the tube capacity and to create your custom laboratory rack.

Four-Way Combirack's small footprint makes these handy racks convenient on the bench, under the hood and in a wide range of other situations.

- Interlocking and expandable racking system
- Fits 50ml, 15ml, 5.0ml, 2.0ml, 1.5ml and 0.5ml tubes
- Suitable for ULT freezer use (-90C)

*create your custom laboratory rack*

**expandable racking system**



Tube Type	Diameter	No of Tubes
50ml	30mm	4
15ml	16-17mm	12
5.0ml	16-17mm	18
1.5ml - 2.0ml	12mm	32
0.5ml	8mm	32

#### Four-Way Combirack

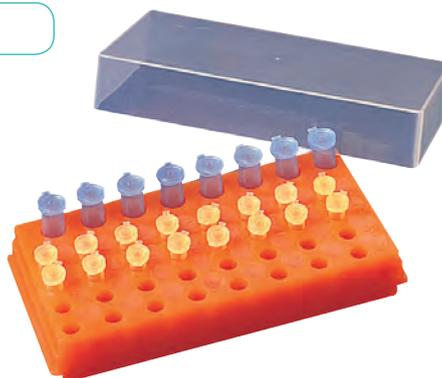
Catalogue Number	Description	Dimensions	Pack Size
LW5840AS	4-Way Combirack, Assorted	171 x 54 x 91mm (L x W x H)	5 racks
LW5840	4-Way Combirack, Natural	171 x 54 x 91mm (L x W x H)	5 racks
FT1850AS	4-Way Combirack, Assorted	171 x 54 x 91mm (L x W x H)	4 racks

## 32-place Combirack Junior

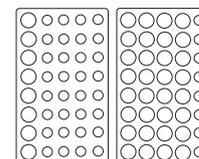
The Combirack Junior is perfect for use as a working rack during sequencing procedures. One side has 32 Wells for 0.5ml type tubes with 8 larger positions for 1.5 or 2.0ml tubes. The other side has the opposite configuration: 32 positions for 1.5ml or 2.0ml tubes with 8 smaller positions.

Both sides have moulded indexing.

- Ideal for sequencing procedures
- Fits 0.5ml, 1.5ml or 2.0ml tubes
- Moulded indexing for your convenience
- Lid included to protect your samples



reversible  
129612116



### 32-Place Combirack Junior

Catalogue Number	Description	Dimensions	Pack Size
LW5440AS	Combirack Junior, Assorted	169 x 81 x 50mm (W x L x H) lid on	5 racks

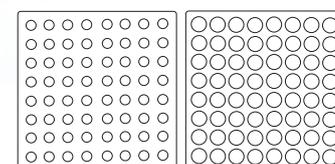
## 64-place Combirack

64-place Combirack has 8 rows and 8 columns in a 129mm square making this a great replacement for card or metal racks. Moulded indexing is featured for easy reference.

- Great replacement for card or metal racks
- Fits 0.5ml, 1.5ml or 2.0ml tubes
- Moulded indexing for your convenience
- Lid included to protect your samples



reversible  
129612116



### 64-Place Combirack

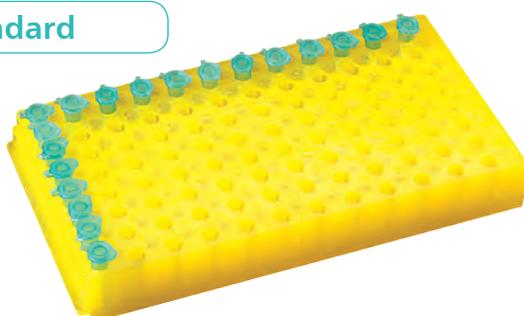
Catalogue Number	Description	Dimensions	Pack Size
LW5640AS	Combirack Junior with lid, Assorted	129 x 129 x 44mm (W x L x H) lid on	5 racks
LW5640	Combirack Junior with lid, Natural	129 x 129 x 44mm (W x L x H) lid on	5 racks



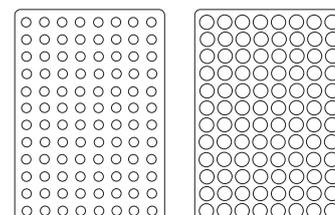
## 96-place Combirack Standard

The most popular Combirack! 8 rows and 12 columns with moulded indexing for easy reference.

- Layout corresponds to 96-Well plates
- Fits 0.5ml, 1.5ml or 2.0ml tubes
- Moulded indexing for your convenience
- Optional lid can be ordered separately



reversible  
129612116



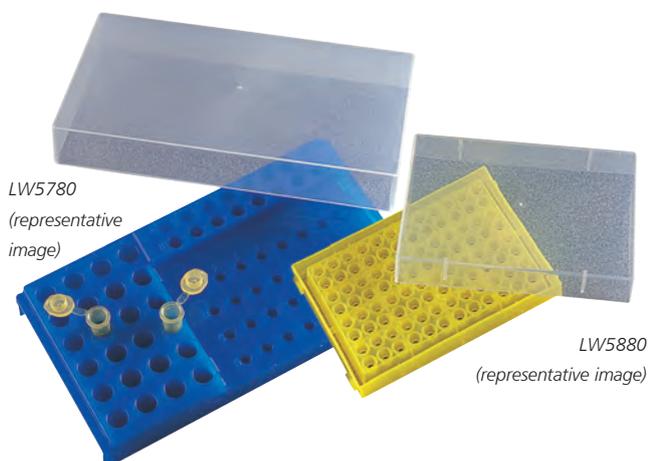
### 96-Place Combirack

Catalogue Number	Description	Dimensions	Pack Size
LW5220AS	Combirack Standard. 96, Assorted	212 x 113 x 50mm (W x L x H) lid on	5 racks
LW5220	Combirack Standard. 96, Natural	212 x 113 x 22mm (W x L x H) lid off	5 racks
LW5122	Lid for Standard Combiracks, Natural	206 x 118 x 29mm (W x L x H)	5 lids



## PCR Workstation and 96-Well Racks

These popular racks and workstations offer the perfect solution to PCR set-up whether you are using tubes, tube strips or plates. All are made from durable polypropylene and have sturdy lids. They are perfect for transporting samples and reactions between preparation, thermal cycling and post-PCR procedure areas. They also come in a wide range of colours!

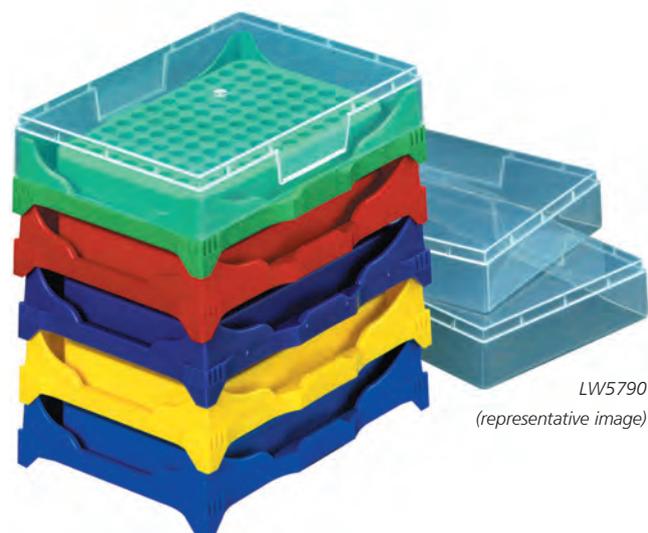


LW5780  
(representative image)

LW5880  
(representative image)



LW5890  
(representative image)



LW5790  
(representative image)

The 96-position rack (LW5880) is designed to be used as a working or storage rack for pre- and post-PCR sample processing. The rack can be clipped into the PCR workstation (LW5780) accommodating 0.2, 0.5 and 1.5ml tubes.

### 96-Well Rack and Workstation

Catalogue Number	Description	Pack Size
LW5880AS*	0.2ml PCR Tube Rack, assorted colours	5
LW5780*	PCR Workstation	1

\* Single colours available. Please see our website.

### Interlocking 96-Well PCR Rack

This convenient space-saving rack was designed for storing and working with PCR samples. The racks can be horizontally attached to each other to build any configuration you desire. With the lid on, they are easily stackable.

### Interlocking 96-Well PCR Rack

Catalogue Number	Description	Pack Size
LW5890AS*	0.2ml Interlocking 96-Well PCR Rack, assorted colours	5

\* Single colours available. Please see our website.

### Stacking 96-Well PCR Rack

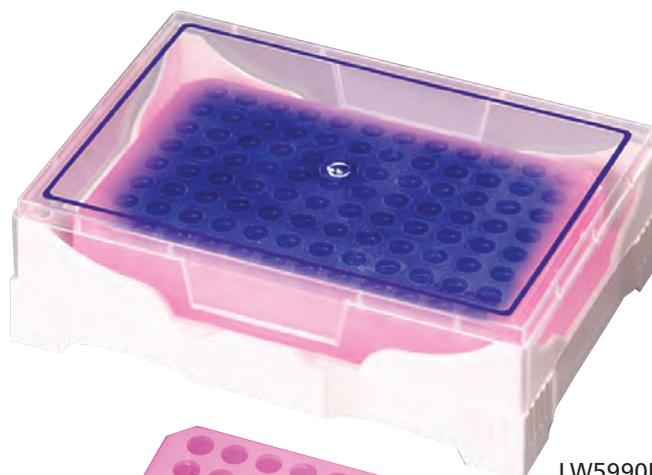
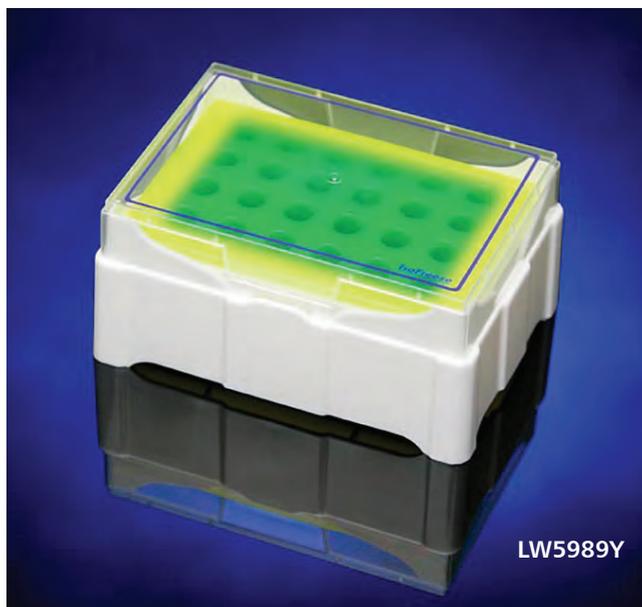
The stacking PCR rack will accommodate all different types of 0.2ml PCR consumables, including tubes and fully-skirted plates. The unique feet provide a stable platform and enable stacking with or without the lid.

### Stacking 96-Well PCR Rack

Catalogue Number	Description	Pack Size
LW5790	Stacking 96-Well PCR Rack, assorted colours	5

## IsoFreeze® PCR: Plate, Strip and Tube Chiller

Changes Colour with Temperature!



Bring the fridge to your bench in style with IsoFreeze® gel-filled racks. IsoFreeze® colour change racks dramatically change to a contrasting colour at 7C indicating when your samples start to warm up. The racks can keep samples cool for over 3 hours and eliminate the need for an ice bucket and the mess it can cause.

Now in three different formats:

- IsoFreeze® MCT accommodates 24 tubes of either 0.5, 1.5, 2.0ml snap-top or screw-cap style
- IsoFreeze® PCR accommodates all 0.2ml tubes, strip-tubes and PCR plates up to 96-Well
- IsoFreeze® PCR SBS has an SBS footprint so is ideal for your automated system

### IsoFreeze® Colour Change Racks

Catalogue Number	Description	Pack Size
LW5989P	IsoFreeze MCT Rack, Purple to Pink	1
LW5989Y	IsoFreeze MCT Rack, Green to Yellow	1
LW5990P	IsoFreeze PCR Rack, Purple to Pink	2
LW5990Y	IsoFreeze PCR Rack, Green to Yellow	2
LW5991P	IsoFreeze PCR SBS Rack, Purple to Pink	2
LW5991Y	IsoFreeze PCR SBS Rack, Green to Yellow	2

## IsoFreeze® Flipper

IsoFreeze® Flipper provides consistent thermal protection for extended periods.

- White unit maintains samples at 0C for over 5 hours
- Blue unit maintains samples between -10 and -20C for up to 3 hours
- Fits 0.5ml or 1.5/2.0ml tubes

### IsoFreeze® Flipper

Catalogue Number	Description	Pack Size
PC40260	IsoFreeze Flipper Rack, White, 0C	1
PC40270	IsoFreeze Flipper Rack, Blue, -20C	1



## Freezer Racks

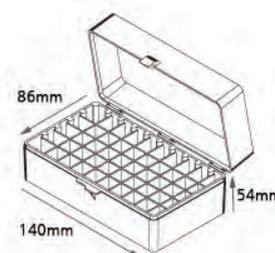
### 50-position Freezer Rack

This smaller format rack is ideal for limited storage space.

It has a tough, hinged locking lid and a frosted writing panel on the front, which provides a convenient labelling option.

In addition, these racks can be autoclaved and are suitable for use in freezers as cold as -90C.

- Temperature range -90C to +120C
- Hinged lid
- 50 x 1.5/2.0ml microtubes, or 1.2ml cryovials



#### 50-position Freezer Rack

Catalogue Number	Description	Dimensions	Pack Size
LW5725AS	50-Position Freezer Rack, Assorted	140 x 86 x 54mm (W x L x H)	5 racks
LW5725N	50-Position Freezer Rack, Natural	140 x 86 x 54mm (W x L x H)	5 racks

### 100-position Freezer Rack

With the same features as the 50-Position Freezer Rack, this provides secure storage for larger sample throughput applications.

- Temperature range -90C to +120C
- Hinged lid
- 100 x 0.5/1.5/2.0ml microtubes, or 1.2ml cryovials
- Available in black for light sensitive samples



#### 100-position Freezer Rack

Catalogue Number	Description	Dimensions	Pack Size
LW5750AS*	100-Position Freezer Rack, Assorted	142 x 142 x 54mm (W x L x H)	5 racks
LW5750N	100-Position Freezer Rack, Natural	142 x 142 x 54mm (W x L x H)	5 racks
LW5751BL	100-Position Freezer Rack, Black	152 x 152 x 53mm (W x L x H)	1 rack

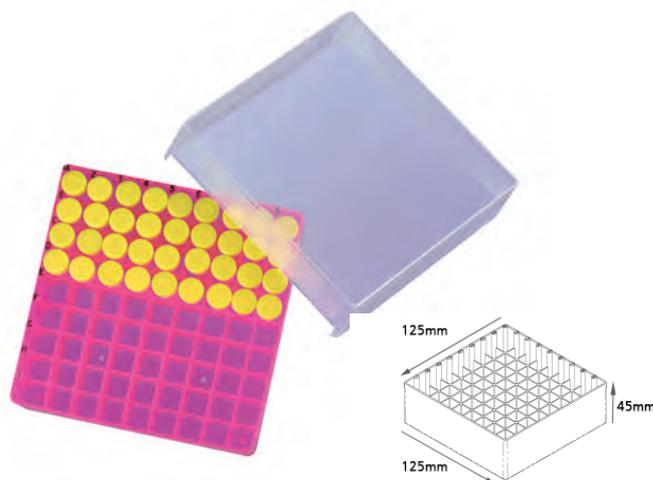
\* Single colours available. Please see our website.

## 81-position Freezer Rack

A great replacement for cardboard freezer-boxes. The base is available in various colours and the push on lid is clear to allow easy sample viewing, with two frosted writing panels. Clear marked indexing allows fast identification and location of your sample tubes.

Now also available as a free-form box without divisions for storage of various sized tubes and storage vessels.

- 81 x 1.5/2.0ml microtubes, or 1.2ml cryovials
- Temperature range -90C to +120C
- Lift-off clear lid



### 81-position Freezer Rack

Catalogue Number	Description	Dimensions	Pack Size
LW5700	81-Position Freezer Rack with Lid, Natural	125 x 125 x 45 mm (L x W x H) lid on	5 racks
LW5700AS*	81-Position Freezer Rack with Lid, Assorted	125 x 125 x 45 mm (L x W x H) lid on	5 racks
LW5710	Free-form Freezer Box with Lid, Natural	125 x 125 x 45 mm (L x W x H) lid on	5 boxes

\* Single colours available. Please see our website.

## 15ml/50ml Freezer Racks

A robust and durable alternative to Styrofoam or card racks for 15ml or 50ml tubes. The indexed grid together with the clear lid provide you with ease of use in tube identification and location. To complement this further, the racks have two opposing-face, write-on surfaces, and a pull tab to aid removal from the freezer.

- 36 x 15ml tubes or 16 x 50ml tubes
- Maximum tube diameter 18mm for 15ml tubes and 30mm for 50ml tubes
- Stamped indexing
- Temperature range -90C to +121C
- Maximum tube height 121mm



### 15ml/50ml Freezer Racks

Catalogue Number	Description	Dimensions	Pack Size
LW5760	15ml Freezer Rack with Lid, Green	144 x 144 x 127 (W x L x H) lid on 144 x 144 x 102 (W x L x H) lid off	2 racks
LW5740	50ml Freezer Rack with Lid, Blue	144 x 144 x 127 (W x L x H) lid on 144 x 144 x 102 (W x L x H) lid off	2 racks

## Cryogenic Storage

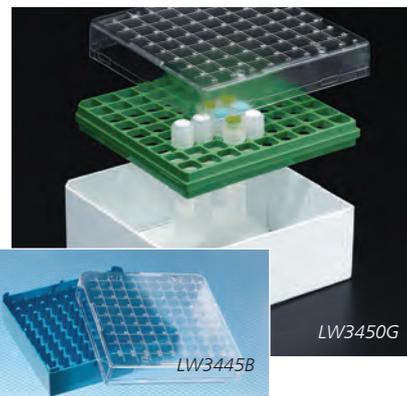
### Cryoboxes

Made of extra-strong polycarbonate, these durable cryogenic storage boxes are designed to be used at temperatures between -196°C and +121°C. Three different models are available to accommodate 25, 81 or 100 cryogenic vials from 1.2 to 5ml.

A transparent cover allows the user to see the contents of the box and is keyed to the base to prevent misalignment. Printed with a series of squares (numbered from 1 to 25, 1 to 81 or 1 to 100) the surface accepts writing with markers, facilitating inventory control.

The 25 and 81 place Cryoboxes have unique coloured plastic grids to separate the cover from the base. For 100-place boxes, a coloured base instead of a grid is used. An innovative vial-picker is supplied with each storage box for quick removal of vials.

- Stackable
- Four colours available for better colour-coding
- Drain-holes under base
- Made to fit metal racks
- Air-vents minimise condensation
- Temperature range -196°C to +121°C
- Vials visible through transparent cover



#### Cryoboxes

Catalogue Number	Description	Dimensions	Pack Size
LW3455B*	25 Position Cryobox 1.0 - 2.0ml Vials, Blue	76 x 72 x 52mm	8 boxes
LW3440B*	81 Position Cryobox 1.0 - 2.0ml Vials, Blue	133 x 133 x 52mm	4 boxes
LW3450B*	81 Position Cryobox 3.0 - 5.0ml Vials, Blue	133 x 133 x 95mm	5 boxes
LW3445B*	100 Position Cryobox 1.0 - 2.0ml Vials, Blue †	133 x 133 x 52mm	4 boxes

\* Other colours available. Please see our website. † Only suitable for internally threaded cryovials

### Cryogenic Vial Workstation

Made from durable polypropylene, each rack will securely hold up to 50 vials.

Each Well houses an integral locking ring that couples with the locking base of all our free-standing cryogenic vials to prevent it from rotating when unscrewing the cap – perfect for when your other hand has a pipette in it!



- Anti-skid rubber feet for safety
- 50 alpha-numerically indexed vial positions
- Tough polypropylene construction ensures durability
- Strong handles make racks easy and safe to carry



#### Cryogenic Vial Workstations

Catalogue Number	Description	Pack Size
LW3400B	Cryogenic Vial Workstation, Blue	4
LW3400R	Cryogenic Vial Workstation, Red	4

### Cryogenic Vial Storage Canes



These strong, durable storage canes are made from aluminium and can accommodate up to five 1.2 or 2.0ml internally threaded cryovials. They allow convenient storage in liquid nitrogen vessels such as Dewar flasks.

#### Cryogenic Vial Storage Canes

Catalogue Number	Description	Pack Size
LW3430	Storage Cane, 290mm long	12

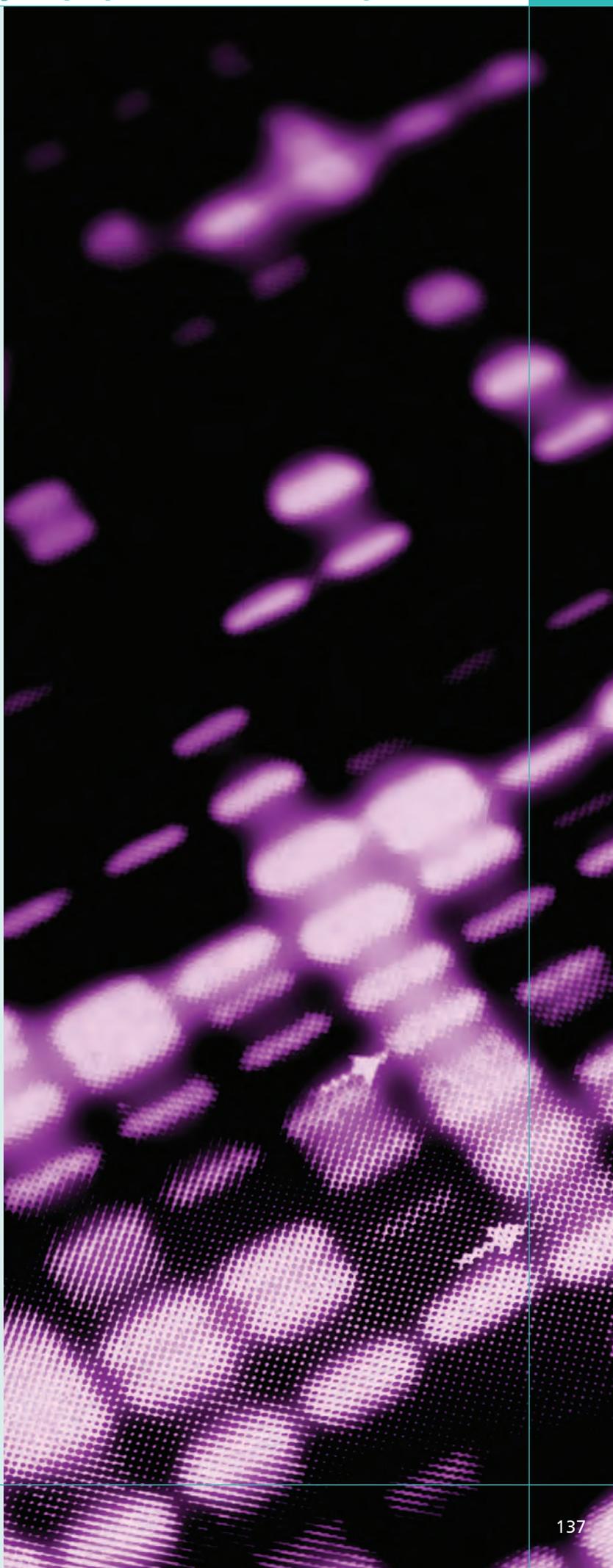
## Clearly Better Resolution

The Alpha Laboratories Clarit-E® range of innovative electrophoresis equipment continues to expand, providing you with a wide choice of tools to suit your separation needs.

Horizontal gel tanks in a variety of sizes offer the ultimate level of flexibility and the vertical modular systems, provide a complete solution for protein work.

Power supplies, gel documentation systems, blotting, plus more specialised equipment, enhance the range with the ability to support most applications.

<b>Contents</b>	<b>Page/s</b>
Horizontal Gel Systems	138-144
DNA-View Electrophoresis System	146
Vertical Gel Systems	148-156
DNA Sequencing Unit	152
Modular Systems	153-154
Blotting Systems	154-157
Gel Drying	157
Power Supplies	158
Transilluminators	159
Gel Documentation	160
Gel Cutting Tips	160



# Clarit-E<sup>®</sup>

## Horizontal Gel Systems ... ... clearly better resolution.

- **Injection Moulded Construction** – durable, leak-proof environment for complete safety and long life
- **Cassette Type Electrodes** – inexpensive, easy to replace. Made of 99.99% corrosion resistant, pure platinum
- **Electrical Safety** – lid can be located in one way only. On removal, power is disconnected from the buffer chamber
- **Multiple Gel Trays** – eliminate the need for additional gel tanks

Easy Click Lid Removal



Cassette Type Electrodes can be easily replaced by the user



"Plug and go" gel casting



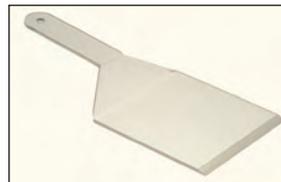
Casting dams allow gels to be rapidly cast externally while the Clarit-E™ unit is in use for gel running.



Flexicasters allow the casting of varying gel lengths simply by locking the moveable dam. Adjustable feet and level bubble allow gels of uniform thickness to be poured.

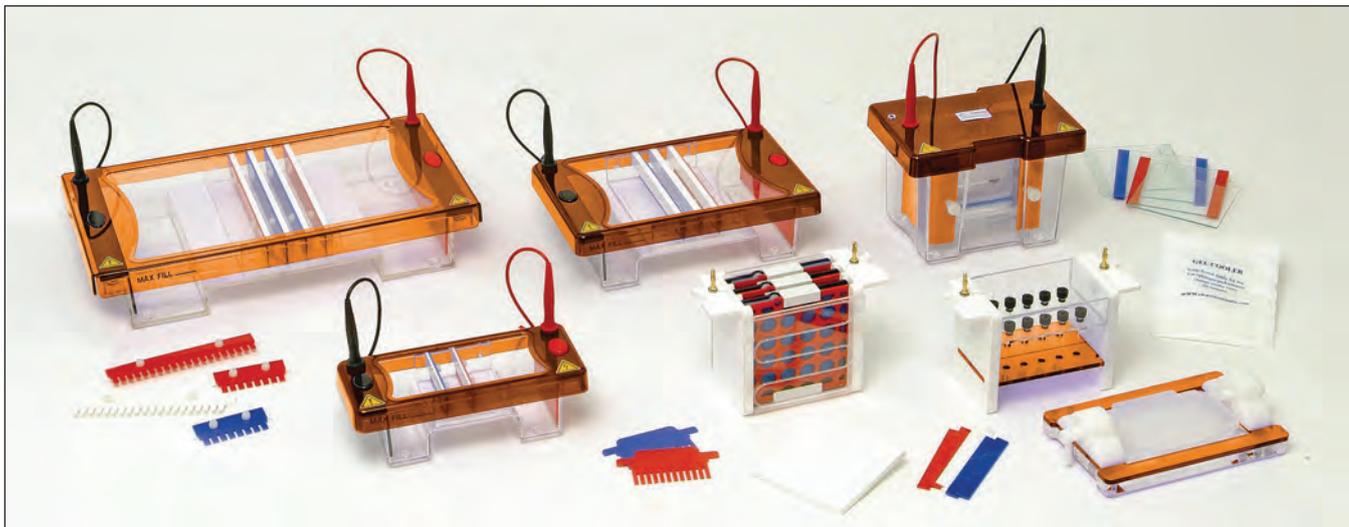


Trays are UV transparent. White PVC platform cover and red loading guides can be optionally applied to enhance Well visibility. Gel trays are free of indentations or casting gate channels, which can interfere with sample progression.



UV transparent Gel Scoops, available for each unit size, offer a safe and easy way to transport gels to a UV Transilluminator.

A complete range of accessories and combs are available. Please visit our website for full details.



The Clarit-E series of horizontal gel units offers the most versatile solution for DNA and RNA agarose gel electrophoresis currently available.

All units offer unsurpassed economy of gel and buffer volume, with gel size and sample number versatility. This eliminates the need for multiple gel tanks for changes in gel size or application.

All units contain removable UV transparent trays. Gel size and sample number requirements can be exactly matched in each unit as systems are available with one, two or three tray options (dependent on model). Easy to use, leak-proof 'plug and go' gel casting dams are included as standard to allow gels to be rapidly cast whilst the Clarit-E unit is in use for gel running. Traditional tape casting can be used, should this be preferred.

Although lid connectors are compatible with most major power supplies, adapters are available to provide complete compatibility.

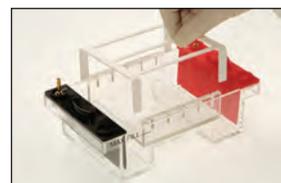
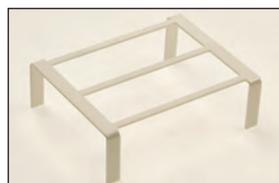


Corrosion resistant gold plated terminals



Retractable connectors compatible with most major power supplies.

## High efficiency horizontal gel cooling



Removable gel table allows a Coolpack to sit above the gel in buffer offering enhanced gel resolution and faster run times.



## Extensive range of combs

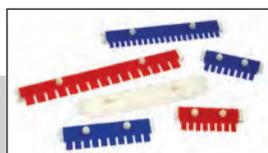
Four thicknesses, colour coded:

- Black:** 0.75mm for ultra resolved bands
- White:** 1mm supplied as standard
- Red:** 1.5mm for maximising sample volume
- Blue:** 2mm for maximising sample volume

Options for sample prep

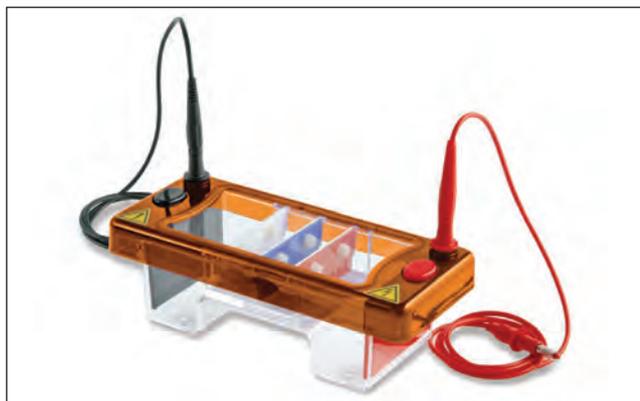
Options for multichannel pipette loading

The number of samples can be maximised using combs with higher numbers of teeth.



**CE** All units are CE marked and are in conformity with the relevant CE Safety Directives: 73/23/EEC: LOW VOLTAGE DIRECTIVE: IEC 61010-1:2001. EN 61010-1:2001; 89/336/EEC EMC DIRECTIVE: EN55011 Emissions, EN50082-1 Immunity.

## Clarit-E<sup>®</sup> Mini Horizontal Gel Tank



- Available with 7 x 7cm, 7 x 10cm or with both gel trays
- Economic low gel and buffer volumes
- Small lab bench footprint

*Typical application:* Designed for quick checks of low to medium numbers of samples.

The Clarit-E Mini is the smallest unit in the range, designed to maximise run economy without compromising versatility as two tray options are available, and combs ranging from preparative up to 16 samples.

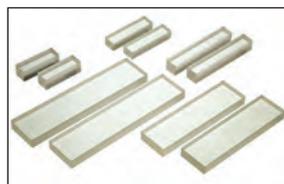
Maximum separation distance is 9cm.

Technical Specifications	
<b>Gel dimensions (W x L)</b>	7 x 7cm, 7 x 10cm
<b>Unit dimensions (W x L x H)</b>	21 x 9 x 9cm
<b>Max. sample: 7 x 7cm tray</b>	32 samples
<b>7 x 10cm tray</b>	64 samples
<b>Buffer volume</b>	225ml
<b>Combs available</b>	1, 2, 4, 8MC, 8, 10, 12MC, 16
<b>No. of samples</b>	Choose any two
<b>Thickness</b>	0.75, 1, 1.5, 2mm

Mini Horizontal Gel Tank	
Catalogue Number	Description
EL1000	Mini, 7 x 7cm UV tray, 2 combs, loading guides & dams
EL1100	Mini, 7 x 10cm UV tray, 2 combs, loading guides & dams
EL1050	Mini, 7 x 7cm & 7 x 10cm UV tray, 2 combs, loading guides & dams
EL1002	7 x 7cm UV tray
EL1102	7 x 10cm UV tray



Components of Clarit-E EL1050



Buffer saver blocks are available for all units, which physically reduce the volume of a gel chamber and so reduce buffer requirements, saving cost.

## Clarit-E<sup>®</sup> Midi Horizontal Gel Tank



- Available with 10 x 7cm, 10 x 10cm or with both gel trays
- Run up to 100 samples
- Low buffer volumes
- Ideal for rapid electrophoresis

*Typical application:* Ideal for quick checks of samples from PCR and cloning.

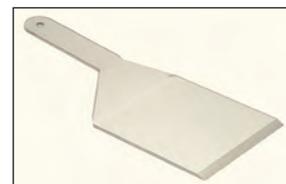
Designed for routine checks of a medium number of samples over short to medium gel lengths. Wider than the Clarit-E Mini it allows more samples to be resolved per gel without a significant increase in buffer or gel volumes.

Technical Specifications	
<b>Gel dimensions (W x L)</b>	10 x 7cm, 10 x 10cm
<b>Unit dimensions (L X W x H)</b>	22 x 12.5 x 9cm
<b>Max. sample: 10 x 7cm tray</b>	50 samples
<b>10 x 10cm tray</b>	100 samples
<b>Buffer volume</b>	300ml
<b>Combs available</b>	1, 2, 4, 8, 10MC, 12, 16, 20MC, 25
<b>No. of samples</b>	Choose any two
<b>Thickness</b>	0.75, 1, 1.5, 2mm

Midi Horizontal Gel Tank	
Catalogue Number	Description
EL1200	Midi, 10 x 7cm UV tray, 2 combs, loading guides & dams
EL1300	Midi, 10 x 10cm UV tray, 2 combs, loading guides & dams
EL1250	Midi, 7 x 7cm & 7 x 10cm UV tray, 2 combs, loading guides & dams
EL1202	10 x 7cm UV tray
EL1302	10 x 10cm UV tray



Loading Guides allow easy well identification and sample loading.



Scoops for safe transfer of gels.

## Clarit-E<sup>®</sup> Midi 96 Horizontal Gel Tank

The Clarit-E Midi 96 is ideal for separation of PCR products, or DNA samples containing only a few bands, from 96-Well microtitre plates and thermal cycler blocks.



### Rapid Testing –

96 Wells can be cast simultaneously within a single gel in a precise 96-Well microplate configuration.

**Rapid Loading** – gels can be loaded quickly and easily by 8-channel pipette.

**Extended Separation** – offset layout of the Wells ensures a longer run length per Well.

**High Speed & High Throughput** – 96 samples loaded and separated in 15 to 30 minutes without loss of resolution.

**Easy Sample Identification** – exact configuration of 96-Well microplates allows samples to be quickly and easily identified from original microplates.

### Technical Specifications

<b>Gel dimensions (W x L)</b>	10 x 12cm
<b>Unit dimensions (W x L x H)</b>	12.5 x 22 x 9cm
<b>Max. sample</b>	96 samples plus 1 or 2 marker lanes 192 for Midi 96 Double
<b>Buffer volume</b>	300ml
<b>Combs available</b>	8MC + 1 marker lane
<b>No. of samples</b>	8MC + 2 marker lanes
<b>Thickness</b>	1.5, 2mm
<b>Recommended power supply</b>	EL2730

### Midi 96 Horizontal Gel Tank

Catalogue Number	Description
EL1350	Midi 96, UV tray, comb block with 12 x 8 sample, 1mm thick combs with 1 marker lane, casting dams
EL1355	Midi 96, UV tray, comb block with 12 x 8 sample, 1.5mm thick combs with 1 marker lane, casting dams
EL1360	Midi 96, UV tray, comb block with 12 x 8 sample, 1mm thick combs with 2 marker lanes, casting dams
EL1365	Midi 96, UV tray, comb block with 12 x 8 sample, 1.5mm thick combs with 2 marker lanes, casting dams

### Accessories and Combs

Catalogue Number	Description
EL1370	Comb block for EL1350
EL1375	Comb block for EL1355
EL1380	Comb block for EL1360
EL1385	Comb block for EL1365
EL1386	8-sample, 1mm thick comb, 1 marker lane
EL1387	8-sample, 1.5mm thick comb, 1 marker lane
EL1388	8-sample, 1.5mm thick comb, 2 marker lanes
EL1389	8-sample, 1mm thick comb, 2 marker lanes
EL1390	Midi, 96-Well tray

## Clarit-E<sup>®</sup> Midi 96 Stretch Horizontal Gel Tank



The Clarit-E Midi-96 Stretch Horizontal Gel Systems have all the features of the Midi 96 systems with the additional benefit of an extended run length per Well of up to 3.6cm. This allows greater resolution of samples.

### Technical Specifications

<b>Gel dimensions (W x L)</b>	10 x 24cm
<b>Unit dimensions (W x L x H)</b>	12.5 x 46 x 8cm
<b>Max. sample</b>	96 samples plus 1 or 2 marker lanes
<b>Buffer volume</b>	700ml
<b>Combs available</b>	8MC + 1 marker lane
<b>No. of samples</b>	8MC + 2 marker lanes
<b>Thickness</b>	1, 1.5mm
<b>Recommended power supply</b>	EL2730

### Midi 96 Stretch Horizontal Gel Tank

Catalogue Number	Description
EL1310	Midi 96 Stretch, UV tray, comb block with 12 x 8 sample, 1mm thick combs, casting dams
EL1320	Midi 96 Stretch, UV tray, comb block with 12 x 8 sample, 1.5mm thick combs with one marker lane, casting dams
EL1330	Midi 96 Stretch, UV tray, comb block with 12 x 8 sample, 1mm thick combs with two marker lanes, casting dams
EL1340	Midi 96 Stretch, UV tray, comb block with 12 x 8 sample, 1.5mm thick combs with two marker lanes, casting dams
EL1345	Midi 96 Stretch Double, UV tray, comb block with 24 x 8 sample, 1mm thick combs, casting dams

### Accessories and Combs

Catalogue Number	Description
EL1312	Comb block for EL1310
EL1322	Comb block for EL1320
EL1332	Comb block for EL1330
EL1342	Comb block for EL1340
EL1386	8 sample, 1mm thick comb. 1 marker lane
EL1387	8 sample, 1.5mm thick comb. 1 marker lane
EL1389	8 sample, 1mm thick comb. 2 marker lanes
EL1388	8 sample, 1.5mm thick comb. 2 marker lanes
EL1316	Midi 96 Stretch, Tray

## Clarit-E® Choice Horizontal Gel Tank



- Three tray options
- Run up to 210 samples
- Low buffer volumes
- Multichannel pipette compatible combs for speed loading

**Typical application:** Ideal for restriction fragment analysis, sample prep or checking of high numbers of samples.

The Clarit-E Choice offers a wide degree of versatility. Three tray options are available allowing the choice of one, two or all three gel length options at the time of purchase. The 15cm total run length allows restriction fragment or other close MW sample bands to be easily separated and identified.

Technical Specifications	
<b>Gel dimensions (W x L)</b>	15 x 7cm, 15 x 10cm, 15 x 15cm
<b>Unit dimensions (W x L x H)</b>	26.5 x 17.5 x 9cm
<b>Max. sample:</b>	
20 x 10cm tray	70 samples
20 x 20cm tray	140 samples
20 x 25cm tray	210 samples
<b>Buffer volume</b>	500ml
<b>Combs available</b>	1, 2, 4, 10, 10MC, 12, 14MC, 16MC, 18MC,
<b>No. of samples</b>	20, 28MC 30MC, 35 - Choose any two
<b>Thickness</b>	0.75, 1, 1.5, 2mm

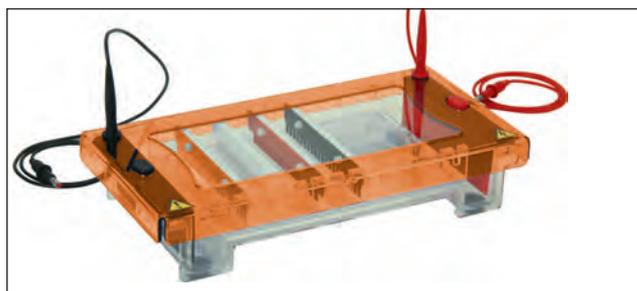
Choice Horizontal Gel Tank	
Catalogue Number	Description
EL1450	Choice, 15 x 7cm UV tray, 2 combs, loading guides & dams
EL1400	Choice, 15 x 10cm UV tray, 2 combs, loading guides & dams
EL1500	Choice, 15 x 15cm UV tray, 2 combs, loading guides & dams
EL1550	Choice Trio, 15 x 7, 10 & 15cm UV tray, 2 combs, loading guides and dams
EL1510	Choice Trio, 3 x 15 x 15cm UV trays, 2 combs, loading guides and dams

Accessories	
Catalogue Number	Description
EL1452	15 x 7cm UV tray
EL1402	15 x 10cm UV tray
EL1502	15 x 15cm tray



Clarit-E Choice Trio includes all 3 tray sizes for optimum versatility and value.

## Clarit-E® Choice Stretch Horizontal Gel Tank



- Available with 15 x 20cm and 15 x 25cm gel trays
- Run up to 350 samples
- Multichannel pipette compatible combs for speed loading

**Typical application:** Ideal for higher resolution separations such as separating samples with very similar molecular weights.

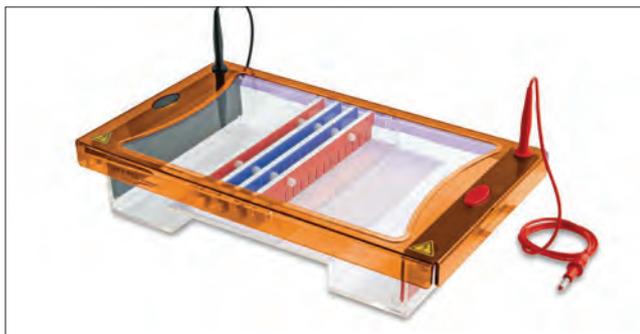
The addition of the stretch Choice units increases the flexibility of this popular range of gel tanks. The extended run lengths allow restriction fragments or other close molecular weight sample bands to be easily separated and identified. The Clarit-E Choice stretch gel tanks are ideal for researchers wanting to perform higher resolution separation of more samples over a longer distance. Speed loading is accomplished using 10, 14, 16, 18, 28 or 30 sample multi-channel pipette compatible combs.

Technical Specifications:	
<b>Gel dimensions (W x L)</b>	15 x 20cm, 15 x 25cm
<b>Unit dimensions (W x L x H)</b>	17.5 x 41 x 9cm
<b>Max. sample:</b>	
15 x 20cm tray	280 samples
15 x 25cm tray	350 samples
<b>Buffer volume</b>	1000ml
<b>Combs available</b>	1, 2, 4, 10, 10MC, 12, 14MC, 16, 18MC,
<b>No. of samples</b>	20, 28MC 30MC, 35 - Choose any four
<b>Thickness</b>	0.75, 1, 1.5, 2mm

Choice Stretch Horizontal Gel Tank	
Catalogue Number	Description
EL1430	Choice Stretch 20, 15 x 20cm UV tray, 4 combs, casting dams, loading guides
EL1440	Choice Stretch 25, 15 x 25cm UV tray, 4 combs, casting dams, loading guides

Accessories	
Catalogue Number	Description
EL1432	15 x 20cm UV tray
EL1442	15 x 25cm UV tray

## Clarit-E Maxi Horizontal Gel Tank



- Available with 20 x 25cm, 20 x 20cm or 20 x 10cm gel trays
- Run up to 550 samples
- Low buffer volumes
- Ideal for extended separations

*Typical application:* Primarily designed for separating high numbers of samples from PCR or cloning.

The Clarit-E Maxi allows ultra high-resolution separations over extended runs. Tray sizes correspond to standard blotter sizes. It also allows easy sample transfer onto a membrane for further analysis. Multichannel pipette compatible combs facilitate speed-loading.

Technical Specifications	
<b>Gel dimensions (W x L)</b>	20 x 10cm, 20 x 20cm, 20 x 25cm
<b>Unit dimensions (W x L x H)</b>	39.5 x 23 x 9cm
<b>Max. sample:</b>	
20 x 10cm tray	200 samples
20 x 15cm tray	350 samples
20 x 20cm tray	450 samples
20 x 25cm tray	550 samples
<b>Buffer volume</b>	1200ml
<b>Combs available</b>	1, 2, 4, 10, 16, 20MC, 25, 30, 36, 40MC, 50
<b>No. of samples</b>	Choose any two
<b>Thickness</b>	0.75, 1, 1.5, 2mm

Maxi Horizontal Gel Tank	
Catalogue Number	Description
EL1600	Maxi, 20 x 25cm UV tray, 2 combs, loading guides & dams
EL1620	Maxi, 20 x 20cm UV tray, 2 combs, loading guides & dams
EL1630	Maxi, 20 x 15cm UV tray, 2 combs, loading guides & dams
EL1640	Maxi, 20 x 10cm UV tray, 2 combs, loading guides & dams
EL1660	Maxi, 20 x 20cm & 20 x 10cm UV tray, 2 combs, loading guides and dams

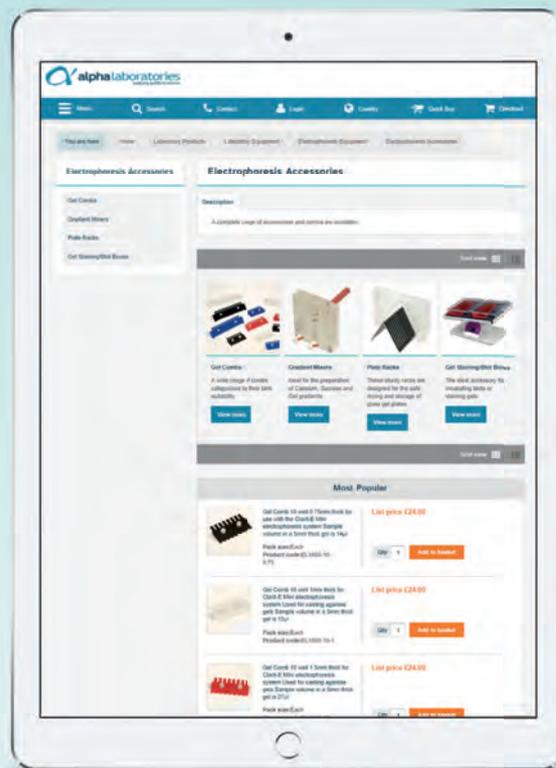
Accessories	
Catalogue Number	Description
EL1642	20 x 10cm UV tray
EL1632	20 x 15cm UV tray
EL1622	20 x 20cm UV tray
EL1602	20 x 25cm UV tray



Casting dams allow gels to be rapidly cast externally while the Clarit-E unit is in use for gel running.

Electrophoresis Equipment available online at [www.alphalabs.co.uk](http://www.alphalabs.co.uk)

Easy Access to All Your Accessories



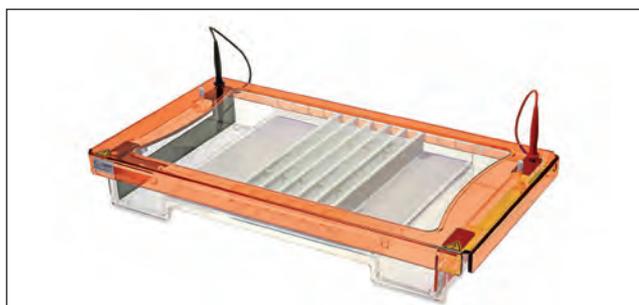
Find an extensive range of gel combs, gradient mixers, plate racks etc.

### Order Online for More Benefits

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24/7 wherever you are

## Clarit-E<sup>®</sup> Screen



- Available with 26 x 16, 26 x 24 and 26 x 32cm or all three gel trays
- Run up to 672 samples
- Low buffer volumes
- Multichannel pipette compatible combs for speed loading

*Typical application:* Ideal for rapid screening of very large numbers of clonal or PCR samples or extended high resolution separations.

The Clarit-E Screen allows loading and analysis of exactly seven 96-Well format micro titre plates.

The large gel run length of up to 32cm also allows resolution of samples over a long distance for separation of complex sample bands such as in restriction fragment analysis. Buffer recirculation ports are included to allow enhanced resolution over extended runs.

### Technical Specifications

<b>Gel dimensions (W x L)</b>	26 x 32cm, 26 x 24cm, 26 x 16cm
<b>Unit dimensions (W x L x H)</b>	50 x 28 x 9cm
<b>Max. sample:</b>	
20 x 10cm tray	672 samples
20 x 20cm tray	504 samples
20 x 25cm tray	336 samples
<b>Buffer volume</b>	1400ml
<b>Combs available</b>	28M, 56MC
<b>No. of samples</b>	Choose any six
<b>Thickness</b>	0.75, 1, 1.5, 2mm

### Screen Horizontal Gel Tank

Catalogue Number	Description
EL1800	Screen, 26 x 32cm UV tray, 6 combs, loading guides & dams
EL1820	Screen, 26 x 24cm UV tray, 6 combs, loading guides & dams
EL1840	Screen, 26 x 16cm UV tray, 6 combs, loading guides & dams
EL1860	Screen, 26 x 16, 24 & 32cm UV tray, 6 combs, loading guides and flexicaster

### Accessories

Catalogue Number	Description
EL1802	26 x 32cm UV tray
EL1822	26 x 24cm UV tray
EL1842	26 x 16cm UV tray



Clarit-E Choice Trio includes all 3 tray sizes for optimum versatility and value.

## Clarit-E<sup>®</sup> Fast Mini



- A convenient self-contained solution for routine agarose gel electrophoresis
- Ultra compact
- Low buffer and gel volumes
- Multichannel pipette compatible combs for speed loading

*Typical application:* For routine, rapid checking of samples.

Perform gel casting, running and analysis in the same unit. The parallel electrode arrangement allows ultra efficient current transfer, enabling resolution to be completed within 30 minutes. The UV transparent base allows direct viewing on a UV Transilluminator with no need for time-consuming transfer and potential gel damage. Dual comb slots.

### Technical Specifications

<b>Gel dimensions (W x L)</b>	10 x 8cm
<b>Unit dimensions (W x L x H)</b>	15 x 15 x 4cm
<b>Max. sample capacity</b>	40 samples
<b>Buffer volume</b>	50ml
<b>Combs available</b>	1, 4, 8, 12, 16, 20MC
<b>No. of samples</b>	Choose any two
<b>Thickness</b>	1, 1.5mm

### Fast Mini Horizontal Gel Tank

Catalogue Number	Description
EL1700	Fast Mini, 10 x 8cm, 2 combs 1.5mm & casting dams
EL1702	Fast Mini casting dams, pk/2

## Clarit-E<sup>®</sup> Comet Assay Tank

This Comet Assay Tank is available for use with 20 standard microscope slides to study single cell gel electrophoresis (SCGE), a technique made popular by drug toxicology and carcinogenesis studies for the detection and quantification of DNA damage in cells.



Each tank's robust construction from ebony acrylic ensures that cells remain free of exposure to background light and DNA damage during electrophoresis, while a cooled central platform provides a convenient surface for slide preparation and control of slide temperature during the assay. Following electrophoresis DNA damage may be measured using Comet Assay scoring software.

- For Single Cell Gel Electrophoresis
- Minimise exposure to light and reduce background DNA damage
- High efficiency cooling for enhanced resolution

## Single Cell Gel Electrophoresis

Initially back in the 1980's SCGE was used to quantify double-stranded DNA breakages in single cells exposed to irradiation. The technique has since been adapted to analyse specific DNA lesions and repair processes.

Cells are exposed to a genotoxic insult, such as ionising radiation, which results in strand breakage of supercoiled duplex DNA, thereby reducing the size of the large genomic DNA molecules. Following this treatment, cells are suspended within low melting point agarose which is smeared on to a microscope slide to create a thin layer in which the cells are embedded. Cellular protein is then removed by lysis in detergent, and the alkaline conditions promote the unwinding of the DNA in readiness for electrophoresis. The DNA is electrophoresed, stained and then analysed using software.

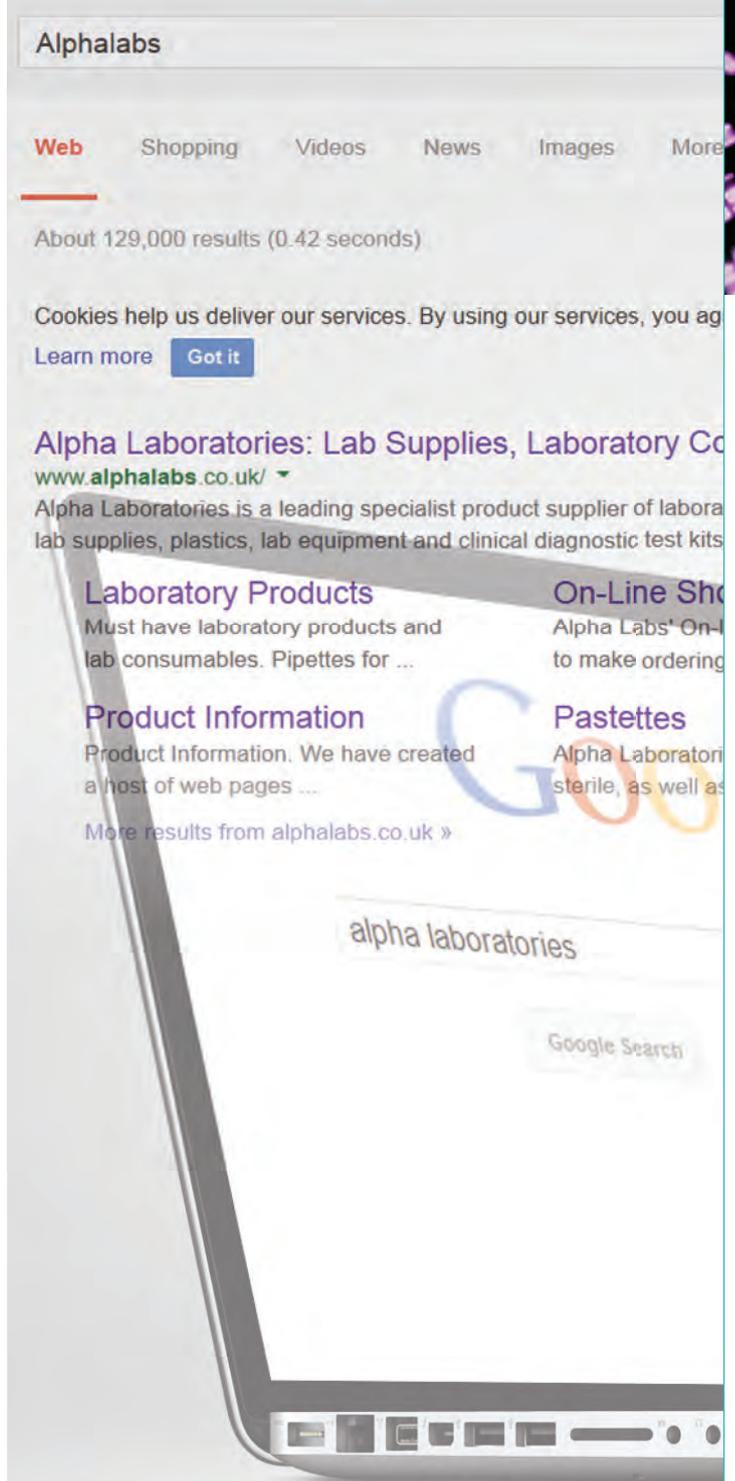
The electrophoresis draws out the DNA fragments and the genomic DNA takes on the appearance of a comet as its negatively charged broken ends and fragments migrate towards the anode during electrophoresis. The head of the comet is mainly composed of intact genomic DNA, whereas any fragmented or damaged DNA is concentrated within and towards the tail. Microscopy imaging is used to measure DNA fluorescence upon staining.

### Technical Specifications

Unit dimensions (W x L x H)	31 x 34 x 9cm
Max. sample capacity	20
Buffer volume	1000ml
Recommended Running Conditions	25V/300mA for 1 hour

### Comet Assay Tank

Catalogue Number	Description
EL1920	Comet assay tank for SCGE for up to 20 slides



## www.alphalabs.co.uk

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## Clarit-E DNA-View Electrophoresis System

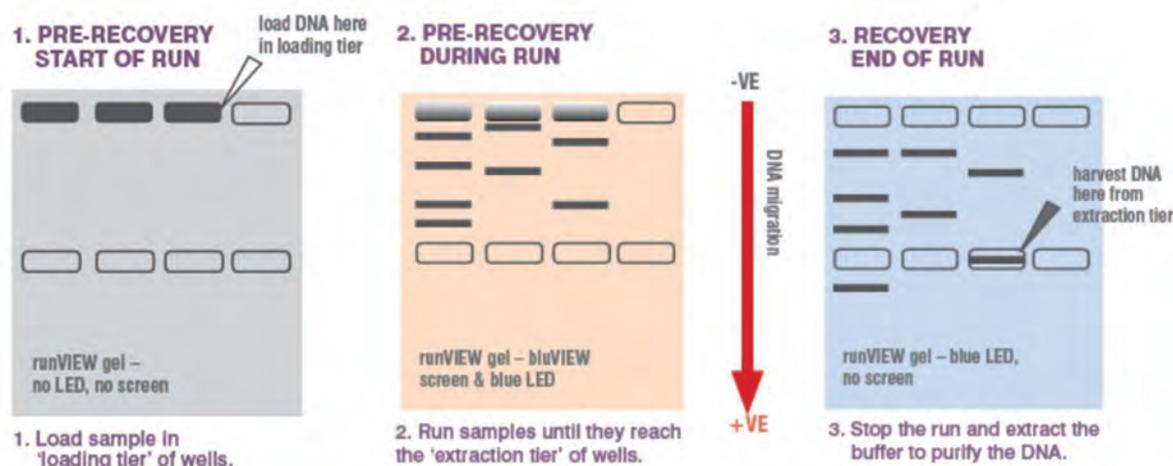
### A Safer Alternative to Traditional Electrophoresis

Traditional electrophoresis methods use a combination of harmful UV light and toxic ethidium bromide to visualise DNA samples in a gel. Intense UV light such as that typically used in transilluminators, can cause skin burns and damage to eyes in a very short exposure time. In addition UV can cause cross-linking of DNA and mutagenesis, thereby reducing cloning efficiency. Ethidium Bromide, though still one of the most widely used DNA stains for electrophoresis, is a known carcinogen and mutagen and should always be used with caution.

Blue LED lights can also be used to cause emission of fluorescence although the wavelength is different to UV, and fluorescence is never as strong as more traditional UV and stain combinations. But with safe proprietary stains, and blue LED illumination, it is possible to visualise DNA gels, without the worry of handling harmful chemicals, or exposure to UV light.

The DNA-View system enables you to do this. What's more, the DNA-View system enables you to see your samples separating in real time, and it can even be used to simplify sample recovery by using a 2 tier Well approach.

Built around the versatile Choice Horizontal Gel system, DNA-View comprises a bluView base station which incorporates the blue LED illuminator and power supply. The base station exactly fits the Choice Gel tank which is supplied with a special lid incorporating a light filter and extractor fan which eliminates condensation to optimise visualisation and resolution during electrophoresis. For completeness, a selection of combs are included suitable for gel resolution or sample preparation.



#### Features

- Versatile, highly compact, self-contained system: for convenience
- Flexible high resolution system: for many different applications
- Integrated tank, power supply and gel illuminator: saves time and space
- Safety for users: no dangerous UV
- Safety for samples: no mutagenesis of DNA, no compromise on cloning efficiency
- Real time visualisation of gel run: no over-runs
- Simplifies DNA elution: simple ethanol precipitation from buffer
- No need for expensive pre-made gels: lab-cast gels work perfectly and save you money
- Current Choice gel tank users upgrade available: cost-effective solution
- Optional Gel Documentation System with 12.1 mega-pixel digital camera
- Complete ready-to-use system excluding chemicals and reagents

#### Applications

- Resolution of DNA samples
- Simple DNA recovery
- Track DNA without harmful UV
- Save on time-consuming gel elution techniques
- Teaching electrophoresis

#### DNA-VIEW

Catalogue Number	Description
EL1560	DNA-View system complete with 15 x 7cm gel tray, 1 set of casting dams
EL1565	DNA-View system complete with 15 x 10cm gel tray, 1 set of casting dams
EL1570	DNA-View system complete with 15 x 15cm gel tray, 1 set of casting dams
EL1575	DNA-View system complete with 15 x 7, 15 x 10 and 15 x 15cm gel trays, 3 sets of casting dams
EL1555	DNA-View base station & bluVIEW lid
EL1580	DNA-View gel documentation hood with 12.1MP camera
EL1585	DNA View Darkroom viewing hood
All DNA-View systems are supplied with 8 double-sided and 4 extra thick preparatory combs	

## DNA-View Stain Compatibility

DNA-View Stain Compatibility		Staining Method		
Nucleic Acid Stain	Relative Performance Between Stains	Gel Pre-Staining	Gel Post-Staining	Sample Staining
SYBR® Green I (DNA)	Higher Intensity Bands Observed	✓	✓	✓
SYBR® Green II (RNA)	Higher Intensity Bands Observed		✓	✓
SYBR® Gold	Higher Intensity Bands Observed	✓	✓	
Midori Green Direct	Higher Intensity Bands Observed			✓
Hydra Green™ Safe DNA Dye	Higher Intensity Bands Observed	✓	✓	
HD Green™ DNA Stain	Higher Intensity Bands Observed	✓	✓	
runSAFE	Higher Intensity Bands Observed			✓
SafeView DNA Stain	Compatible -Visible Bands Observed	✓		
SYBR® Safe	Compatible -Visible Bands Observed	✓	✓	
Midori Green	Compatible -Visible Bands Observed	✓	✓	
Midori Green Advanced	Compatible -Visible Bands Observed	✓	✓	
EtBr	Faint Bands Observed*	✓	✓	
SERVA DNA Stain Clear G	Faint Bands Observed*	✓		
HealthView™	Faint Bands Observed*	✓	✓	
GelGreen™	Faint Bands Observed*	✓	✓	
GelRed™	Faint Bands Observed*	✓	✓	

\*Compared to the same gel on a UV Transilluminator



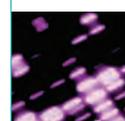
### Technical Specifications

#### DNA-View Viewing Dock and System

<b>Blue Light</b>	470nm	<b>Timer</b>	1-999 minutes with alarm
<b>Voltage/ Resolution</b>	25-150V / 1V	<b>Safety Device</b>	No load detection
<b>Current/ Resolution</b>	300mA / 1mA	<b>Operating temperature</b>	Ambient to 40°C
<b>Power</b>	30 W	<b>Dimensions</b>	293 x 220 x 80 mm
<b>Operating Mode</b>	Constant Voltage	<b>Rated Voltage</b>	100-240V, 50/60Hz
<b>Gel Dimensions (W x L)</b>	15 x 7, 15 x 10 & 15 x 15 cm	<b>bluVIEW Lid Design</b>	Orange (EtBr) Amber (runSAFE & SYBR stains)
<b>Built-in extractor fan</b>	Powered by base unit.	<b>Unit dimensions (w x d x h)</b>	26.5 X 17.5 X 9cm
<b>Buffer volume</b>	500ml		
<b>Combs included</b>	2x Comb 1 & 2 sample, 1mm thick 2x Comb 4 & 16MC sample, 1mm thick 4x Comb 20 & 28MC sample, 1mm thick 2x Comb 4 sample 2 Marker, 3mm thick 2x Comb 6 sample 2 Marker, 3mm thick		

**N.B. Combs cannot be changed with this system**

Supplied with a standard UK 3-pin plug.  
If you require a different style please specify when ordering.

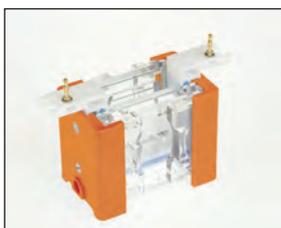


# Clarit-E®

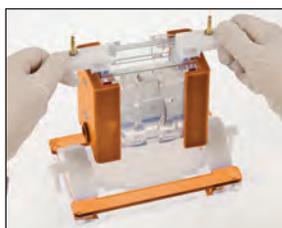
## Vertical Electrophoresis Systems ... ... clearly better resolution.

- **Rapid Gel Casting and Loading** – ensures trouble-free gel set-up
- **Versatile** – modules for slab gel, 2-D electrophoresis and electroblotting using a single universal buffer tank

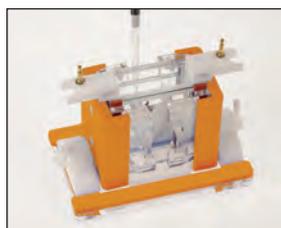
**Simple, rapid, leak-proof gel casting** (unique sliding gates gel clamping system is only applicable for Mini vertical tank)



Insert glass plates and slide gates to create efficient seal



Transfer to casting base and tighten cams

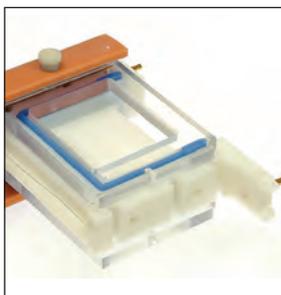


Insert gel solution and comb and allow to polymerise



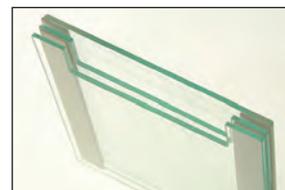
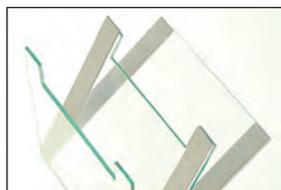
Transfer to tank, fill with buffer and run

### Pressure clamping frame



On the Mini gel tank a unique single-piece pressure frame offers the option of rapid single screw per side or new screw-free set up. Even pressure and buffer contact across the plates results in even sample migration and efficient heat removal from the gel. Glass plates are 2mm thick for Mini and 4mm thick for Mini Wide and Maxi tanks to reduce breakage.

### Run up to four gels at a time



While most vertical gel units can run only one or two gels, the Clarit-E Mini units can run one, two or up to four gels at any time using a triple glass plate sandwich.

### Effective buffer cooling



A simple to use cooling pack system ensures enhanced resolution without costly and time-consuming additional equipment. No chiller, tap or obstructing connecting leads are required. The cooling pack is simply pre-chilled in a freezer and placed in the gel tank. Additionally, the use of cooling packs reduces buffer volume.

### Extensive range of combs

Up to five thicknesses, colour coded:

- Purple:** 0.5mm for ultra resolved bands
- Black:** 0.75mm for ultra resolved bands
- White:** 1mm supplied as standard
- Red:** 1.5mm for maximising sample volume
- Blue:** 2mm for maximising sample volume

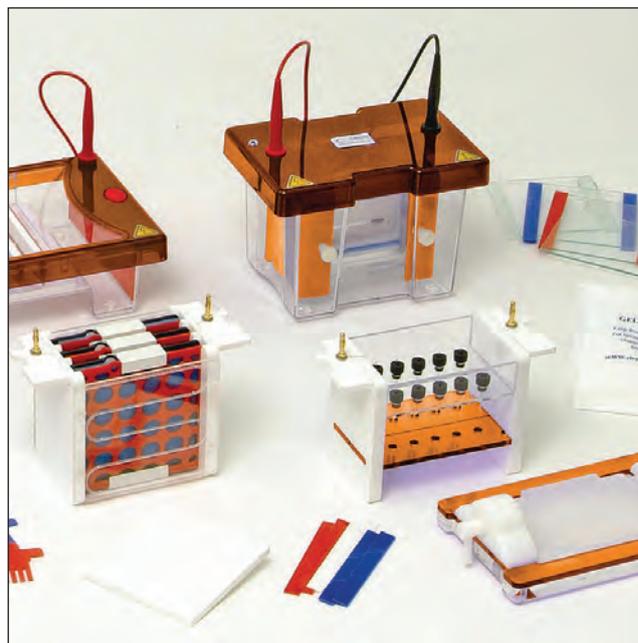


Options for sample prep

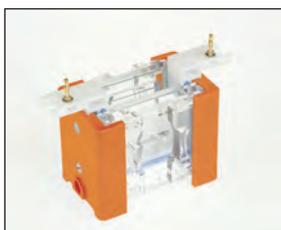
Options for multichannel pipette loading

The number of samples can be maximised using combs with higher numbers of teeth.

The Clarit-E range of Vertical Gel Units combines ease of use with high resolution separations. Three sizes, Mini 10 x 10cm, Mini Wide 20 x 10cm and Maxi 20 x 20cm, share a host of common features including a guaranteed leak-proof seal required for trouble-free, rapid and uncomplicated gel casting. Utilising a built-in gel running module eliminates time-consuming transfer of glass plates following casting - a process which can cause gel damage and misalignment. Glass plates with permanently bonded spacers, guarantee perfect spacer alignment. The glass plate sandwich is simply inserted between pressure bars and a minimum of screws tightened. For the Clarit-E Mini there are no screws to tighten as the unique gel clamping system ensures fast set up times and guaranteed leak-proof gel casting. Following polymerisation, the gel running module is simply inserted into the gel tank for electrophoresis.



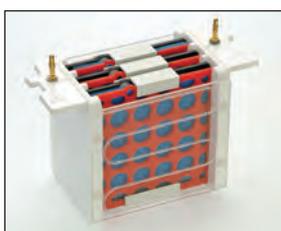
## Interchangeable Modules



Running Module



2D Module



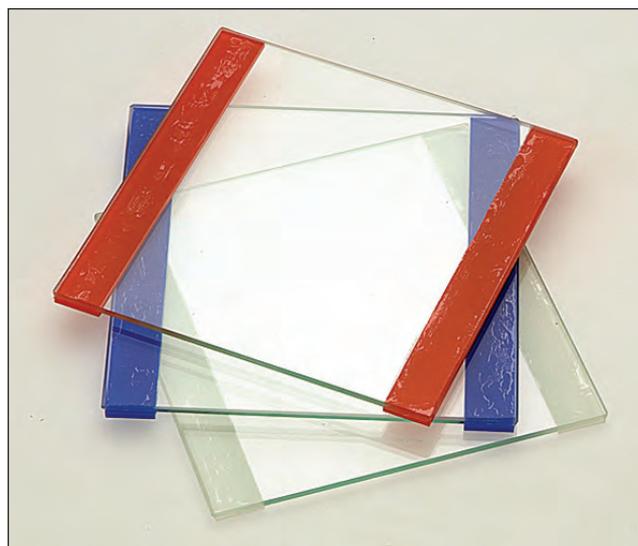
**Blotting Module** with double-hinged cassettes for added convenience.



Corrosion resistant, 99.99% pure platinum electrodes and gold plated terminals – easily replaced, ensuring minimum repair times.



Retractable connectors compatible with most major power supplies.

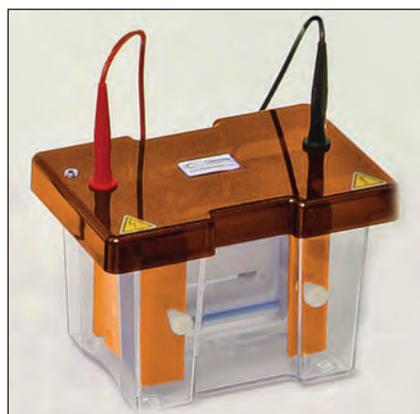


A complete range of accessories and combs are available. Please visit our website for full details.

**CE** All units are CE marked and are in conformity with the relevant CE Safety Directives: 73/23/EEC: LOW VOLTAGE DIRECTIVE: IEC 61010-1:2001. EN 61010-1:2001; 89/336/EEC EMC DIRECTIVE: EN55011 Emissions, EN50082-1 Immunity.

## Clarit-E<sup>®</sup> Mini Vertical Gel Tank

- Injection Moulded construction
- Compatible with all 8 x 10 and 10 x 10cm precast gels
- Low buffer volumes
- Run up to 4 gels

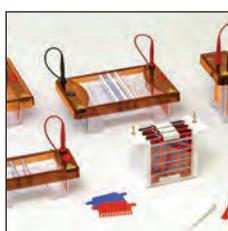


*Typical application: Mini SDS PAGE, Native PAGE, Gradient, Second dimension and Nucleic acid separations.*

The preferred unit for routine mini protein electrophoresis, the Clarit-E Mini is constructed using the latest injection moulding manufacturing techniques. This gives a high quality, low cost product with unsurpassed finish, durability and strength.

The running insert has the option of sliding gates or a single screw per side for clamping gels.

Accessory electroblotting and tube gel modules are available which use the same outer tank and lid. See Modular systems for further information.



Clarit-E Mini and optional accessories



Internal running module



Gel loading guides

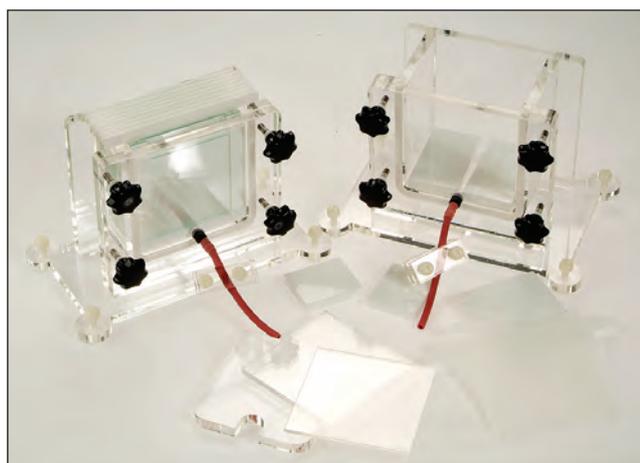
### Technical Specifications

<b>Plate dimensions</b>	10 x 10cm
<b>Gel dimensions (W x L)</b>	7.5 x 8cm
<b>Unit dimensions (W x D x H)</b>	19 x 13 x 15cm
<b>Max. sample capacity</b>	80 samples per unit 20 samples per gel
<b>Buffer volume</b>	Min 250ml; Max 1200ml
<b>Combs available</b>	1, 5, 8MC, 9, 10, 12, 16MC, 20
<b>No. of samples</b>	Choose any two
<b>Thickness</b>	0.75, 1, 1.5, 2mm

### Mini Vertical Gel Tank

Catalogue Number	Description
EL2004	Mini, 10 x 10cm includes glass plates with bonded 1mm thick spacers, 2 combs, cooling pack, dummy plate
EL2000	Mini, 10 x 10cm includes glass plates with bonded 1mm thick spacers, 2 combs, cooling pack, dummy plate and casting base
EL2012	Mini, 10 x 10cm includes glass plates with bonded 1mm thick spacers, 2 combs, cooling pack, dummy plate, casting base, external casting upstand
EL2190	Mini Quad, 10 x 10cm includes 4 glass plates with bonded 1mm thick spacers, 4 combs, cooling pack, dummy plate, casting base, external casting upstand

## Clarit-E<sup>®</sup> Multiple Mini Gel Casting



- Integral levelling feet and level bubble
- Standard and gradient gels can be poured
- Choice of 2, 6, 12 or 24 gel casting models

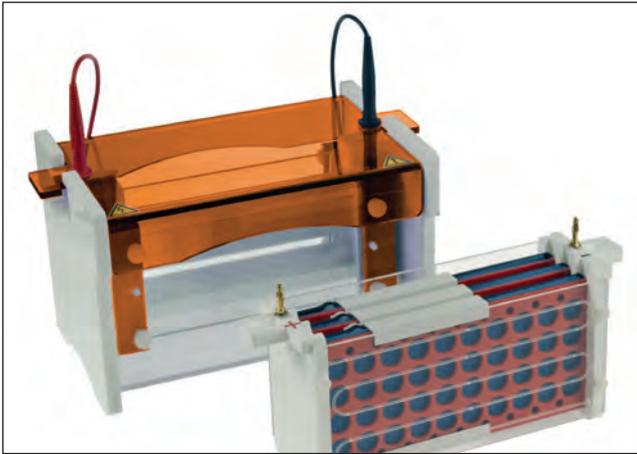
Advance casting of multiple mini gels can help to achieve consistent results between runs. These multiple gel casting systems are tailored for use with Clarit-E Mini vertical electrophoresis units; with three models of 2, 6, 12 and 24 gel capacities. Fewer gels can be poured if required using the acrylic saver blocks supplied with each system.

The fixed hinged clamps allows the gel sandwich to be adjusted to the correct pressure irrespective of the number or the thickness of gels being poured. Separation sheets allow the easy separation of the glass plates after pouring.

### Multiple Mini Gel Casting

Catalogue Number	Description
EL2018	2 Gel Caster for 8 x 10cm or 10 x 10cm gels
EL2166	12 Gel Caster for 8 x 10cm or 10 x 10cm gels

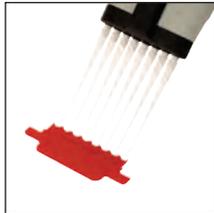
## Clarit-E<sup>®</sup> Mini Wide Vertical Gel Tank



- Offers the capacity of two mini gels on a single gel

- Optional low or high buffer volumes

*Typical application: Mini SDS PAGE, Native PAGE, Gradient, Second dimension and Nucleic acid separations.*



The Clarit-E Mini Wide vertical gel unit with a gel width of 20cm effectively allows double the number of samples to be resolved as the Clarit-E Mini unit. This allows consistency of sample comparison on a single gel and is designed for those with greater than 20 samples to compare and resolve.

Both the Mini Wide and the Maxi system use 4mm thick glass plates which reduce breakage and have bonded spacers for added convenience. A wide range of accessories is available allowing many techniques to be performed using the same unit. Prep combs can be used to maximise sample loading and recovery.

*Uses same combs as Maxi systems*

Technical Specifications	
Plate dimensions	20 x 10cm
Gel dimensions (W x L)	18 x 8cm
Unit dimensions (W x D x H)	26 x 16 x 16cm
Max. sample capacity	192 samples per unit 48 samples per gel
Buffer volume	Min 600ml; Max 2800ml
Combs available No. of samples	1, 5, 10, 18MC, 24, 30, 36MC, 48 Choose any two
Thickness	0.75, 1, 1.5, 2mm

Mini Wide Gel Tank	
Catalogue Number	Description
EL2083	Mini Wide, 20 x 10cm 2 sets of glass plates with bonded 1mm thick spacers, 2 combs, cooling pack
EL2084	Mini Wide, 20 x 10cm 2 sets of glass plates with bonded 1mm thick spacers, 2 combs, cooling pack inc. casting base
EL2086	Mini Wide, 20 x 10cm 2 sets of glass plates with bonded 1mm thick spacers, 2 combs, cooling pack inc. casting base and external casting upstand

## Clarit-E<sup>®</sup> Maxi Z Vertical System

- For 20x20cm gels

- More Gels – run 2-4 gels simultaneously in standard 2-gel Maxi Z and 4-gel Maxi Z Tetrad systems

- Customise your system for second-dimension runs with 18cm IPG strips and gels using the IEF conversion kit



- Utilise modular inserts with the same universal tank and lid to extend the application of your standard Maxi Z unit to create a complete 2-D or blotting system

The new Vertical Maxi Z System is the latest product innovation for large format vertical gel electrophoresis. Designed to perform a variety of separations, including first and second-dimension SDS-PAGE, native, preparative, gradient and high-resolution nucleic acid electrophoresis, plus capillary tube gel IEF and electroblotting, the Maxi Z is one of the most versatile maxi vertical systems available.

By introducing innovative, new vertical screw-clamp technology within the PAGE insert only four screws are now necessary to secure up to four 20 x 20cm gels.

*Choose any two combs*

Technical Specifications			
Number of gels	1 - 4	Total Volume Inner Buffer Chamber	192 samples, 48 samples per gel
Handcast gels	Using glass plates and combs	Total buffer Volume	5.3L (2 gels) 4.8L (4 gels)
Plate Dimensions (W x H x T)	20 x 20cm x 0.4cm	Standard run time for SDS-PAGE Without Cooling With Cooling	4-5 hours 3-4 hours
Standard Spacer Dimensions (W x H)	2 x 20cm	Recommended power supplies	EV233 for IEF; EL2740 for PAGE; EL2750 for blotting
IPG Spacer Dimensions (W x H)	0.6 x 20cm	Unit Dimensions (W x D x H) Weight	30x18x27cm 2.5Kg

Maxi Z Vertical System for 20x20cm gels	
Catalogue Number	Description
EL2100Z	Maxi Z, 20 x 20cm Dual with Glass Plates with bonded 1mm thick spacers, 2 combs, cooling coil, dummy plate and Casting Base
EL2102Z	Maxi Z, 20 x 20cm Dual, 2 sets of Glass Plates, 1mm thick bonded Spacers, 2 combs, cooling coil, dummy plate; includes caster and External casting upstand
EL2120Z	Maxi Z, 20 x 20cm Dual vertical system with Glass plates, 2 combs, cooling coil (No casting Base)
EL2110Z	20 x 20cm Dual Casting Base
EL2179Z	IEF conversion kit for 18cm IPG strips and tube gels
EL2177Z	Pair notched 20 x 20cm glass plates with 6mm wide spacers to run IEF strips

## Clarit-E<sup>®</sup> Maxi Plus for Second Stage 2-D

The 26cm active gel width provides a large gel area to resolve large IEF strips. In combination with the IEF system, this offers a complete package for 2-D electrophoresis. The unit utilises the Clarit-E advanced design features to provide convenient ease of use with high resolution separations.



Rapid set up cooling retains resolution in extended separations and also saves on buffer volume without affecting run quality. Four gels can be resolved per run. A wide range of accessories are available to allow easy transition between 2-D and standard vertical electrophoresis techniques. In particular different types of 2-D comb allow a wide degree of versatility in sample selection and gel set-up.

### Technical Specifications

<b>Unit dimensions (W x H x D)</b>	36 x 33 x 18cm
<b>Unit dimensions (W x L)</b>	30 x 22cm
<b>Gel dimensions (W x L)</b>	28 x 20cm
<b>Max. sample</b>	300 samples per run; 75 samples per gel
<b>Buffer volume</b>	Min 1800ml, Max 8400ml
<b>Combs available</b>	1, 2, 4, 28MC, 56MC, 75
<b>No. of samples</b>	
<b>Thickness</b>	0.25, 0.35, 0.5, 1, 1.5, 2.0mm

### Maxi Plus for Second Stage 2-D

Catalogue Number	Description
EL2390	Maxi Plus, 30 x 22cm Dual with Glass plates & bonded 1.5mm spacers, 2 x 28 sample combs, 2 combs, cooling pack, dummy plate
EL2395	Maxi Plus, 30 x 22cm Dual with Glass plates & bonded 1.5mm spacers, 2 x 28 sample combs, 2 combs, cooling pack, dummy plate & casting base
EL2334	Maxi Plus Blot Insert - includes 3 cassettes and 6 fibre pads
EL2318	Dual Caster - Maxi Plus

## Clarit-E<sup>®</sup> DNA Sequencing Unit

- Run up to 96 samples
- Enhanced gel heat homogenisation
- Variable low or high buffer volumes
- 20 x 50cm or 33 x 45cm formats



**Typical application:** DNA Sequencing, 2-D analysis, Micro-satellite analysis, DNA fingerprinting, Gel shift assays, Single-Strand Conformation Polymorphism (SSCP), Heteroduplex and Oligonucleotide analysis.

Ideal for a variety of large format vertical gel applications, these units offer advanced features for enhancing gel resolution and ease of use, essential when handling gels of this size. Each unit contains ultra soft silicone seals for easy plate sealing and trouble-free runs, even over extended run times.



Resolution is enhanced by using an aluminium heat sink plate, which is essential for even sample migration.

Added convenience is provided by a removable lower buffer tank and upper buffer drainage tap.



Special buffer chambers allow either low buffer volumes to be used for economy or high buffer volumes to be used for extended runs.

A wide range of interchangeable comb and spacer options allows a large number of techniques to be easily accomplished.

### Technical Specifications

<b>Plate dimensions (W x L)</b>	EL2560 20 x 50cm EL2580 33 x 45cm
<b>Max. sample capacity</b>	EL2560 48 samples EL2580 96 samples
<b>Buffer volume</b>	EL2560 Min 500ml, Max 1000ml EL2580 Min 800ml, Max 2000ml
<b>Combs available: No. of teeth</b>	24, 48, 80, 96
<b>Thicknesses</b>	0.25, 0.35, 1, 1.5mm

### DNA Sequencing Unit

Catalogue Number	Description
EL2560	DNA Sequencing Unit, 20cm wide, Glass plates, 0.35mm spacers, 48 sample comb
EL2580	DNA Sequencing Unit, 33cm wide, Glass plates, 0.35mm spacers, 48 sample comb
EL2594	Fan heater Sensor Lit for DNA Sequencing Unit EL2560 & EL2580

## Clarit-E<sup>®</sup> Isoelectric Focusing



- For IEF strip and gel applications
- Large cooling platform area
- Pick and place easy to position electrodes
- Grid for accurate electrode alignment

The IEF system has been designed to allow the full range of IEF flat bed electrophoresis techniques. These include wick based electrophoresis, precast horizontal IEF gel electrophoresis, hand cast horizontal IEF Gel electrophoresis and Iso Electric focusing using IEF strips. The unit includes enhanced cooling over a large platform which offers increased strip capacity and gel area.

Uniform cooling of the platform is achieved using a large ceramic plate which can be connected to any standard chiller via quick fit connectors for enhanced gel or strip cooling.



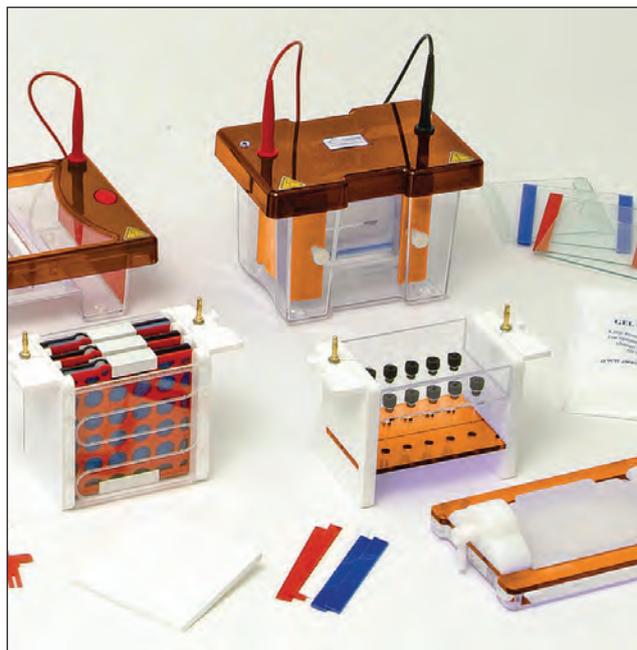
### Technical Specifications

Max strip length	26cm
Max. gel dimensions	26 x 26cm
Unit dimensions (W x D x H)	55 x 35 x 10cm

### Isoelectric Focusing

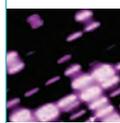
Catalogue Number	Description
EL7000	Flatbed IsoElectric Focusing System, 26 x 26cm
EL7010	Chiller

## Clarit-E<sup>®</sup> Modular Systems



- Economy of bench space and cost
- Enhanced reproducibility
- Simple to use casting
- Rapid cooling set-up

The Clarit-E range of Modular Vertical Gel Systems allow multiple electrophoresis techniques to be performed in the same unit. Using the same main tank and lid, three different inserts are interchangeable for slab gel, tube gel and electroblotting techniques. These systems are available in three size options, Mini 10 x 10cm, Mini Wide 20 x 10cm and Maxi 20 x 20cm and are available as individual, combination or complete modular systems. Combination and modular systems offer maximum value and space and have the added benefit of increased consistency, which results from using the same universal base and lid.



## Clarit-E<sup>®</sup> Mini, Mini Wide & Maxi complete Modular Systems

These systems include all modules and accessories required for Slab Gel Electrophoresis, 2-D Electrophoresis and Electroblotting. The central component is the Clarit-E Mini, Mini Wide or Maxi Vertical unit. These include a rapid and intuitive casting system, enhanced and easy to set up cooling system and have increased capacity – the Mini can run up to four gels per run. In addition, the Clarit-E Tube gel module is capable of resolving up to 10 first dimension gels and the Electroblotting module has a 3-blot capacity.

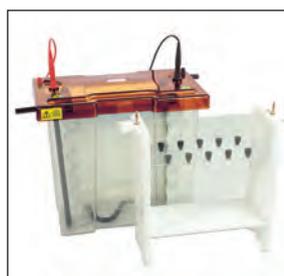
*Complete Modular Systems include: Vertical tank with gel running module, 2x notched glass plates, 2x plain glass plates with bonded spacers, dummy plate, 2x combs, casting base, silicone mat, cooling pack, running module for tube gels, capillary tubes, blanking plugs, 2-D combs, spacers, electroblotting module, 3x compression cassettes and 6x fibre pads.*

## Clarit-E<sup>®</sup> 2-D Complete Systems

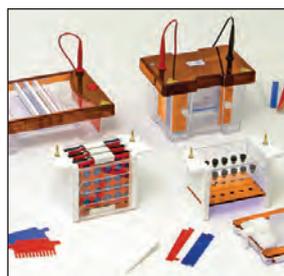
- Rapid set-up electrofocusing
- 10-tube capacity
- Extended accessory range
- Enhanced cooling features

The Clarit-E 2-D Systems include both modules required for Slab Gel and First Dimension Electrophoresis and accessories, to provide a complete Mini, Mini Wide or Maxi 2-D system. The Tube Gel Module includes a rapid release gasket for easy tube extraction. Focusing can be accomplished in as little as three hours in the Mini Unit. Disposable capillary tubes are included for added convenience, plus 2-D combs and spacers, which are colour coded according to thickness for easy identification.

*Complete 2-D System comprising: Vertical tank with gel running module, 2x notched glass plates, 2x plain glass plates with bonded spacers, dummy plate, 2x combs, casting base, silicone mat, cooling pack, running module for tube gels, capillary tubes, blanking plugs, 2-D combs and spacers.*



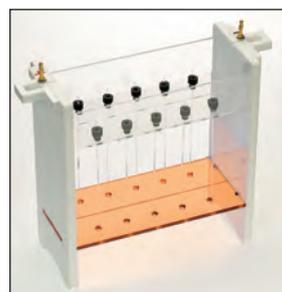
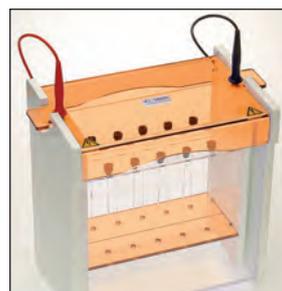
Modules included in the Clarit-E Maxi 2-D system



Modules included in the Clarit-E Mini Wide 2-D system

## Clarit-E<sup>®</sup> Tube Gel Units, Inserts and Accessories

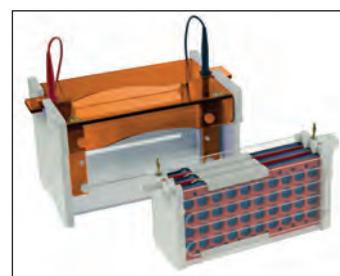
These stand-alone, complete units for first dimension capillary/tube gel electrophoresis are available in 3 sizes, Mini 10 x 10cm, Mini Wide 20 x 10cm and Maxi 20 x 20cm formats. Units are interchangeable with Clarit-E slab gel and electroblotting inserts.



*Clarit-E Tube Gel Units comprise tank and lid, glass capillary tubes, blanking ports and cooling pack.*

## Clarit-E<sup>®</sup> Modular Electroblotting

- Hinged cassettes
- 3-blot capacity
- High intensity electrodes
- Rapid cooling set-up



The Clarit-E Electroblotting Systems include both modules required for Slab Gel Electrophoresis and Electroblotting and accessories, to provide a complete Mini, Mini Wide or Maxi gel casting, running and electroblotting system.

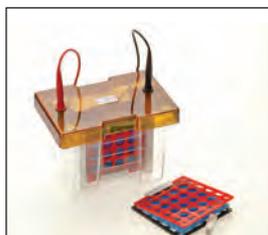
A high intensity current is generated by coiled platinum electrodes. These in conjunction with the advanced cooling features allow rapid electroblotting in as little as one hour.

*Clarit-E Modular electroblotting system comprises: Vertical tank with gel running module, 2x notched glass plates, 2x plain glass plates with bonded spacers, dummy plate, 2x combs, casting base, silicone mat, cooling pack, electroblotting module, 3x compression cassettes and 6x fibre pads.*

## Clarit-E® Electroblotting Units

- Ideal for Western blotting of proteins
- Open design, rigid cassettes for maximum current transfer

These stand-alone, complete units for electroblotting, Mini, Mini Wide and Maxi formats, include Clarit-E tank and lid, electroblotting insert, cassettes and fibre pads. Units are interchangeable with Clarit-E slab and tube gel inserts. Hinged rigid cassettes allow rapid set up and convenience and ensure even contact between the gel and membrane is maintained.



### Technical Specifications

Unit dimensions (W x D x H)	Mini	Mini Wide	Maxi
	19 x 13 x 15cm	26 x 16 x 16cm	26 x 16 x 28cm
Max. sample capacity	Mini	Slab 80 samples, 20 samples/gel, Tube - 10 tubes; Blot - 3 blots	
	Mini Wide	Slab 192 samples, 48 samples/gel, Tube - 10 tubes; Blot - 3 blots	
	Maxi	Slab 192 samples, 48 samples/gel, Tube - 10 tubes; Blot - 3 blots	
Buffer volume	Mini	Min 250ml; Max 1200ml	
	Mini Wide	Min 600ml; Max 2800ml	
	Maxi	Min 1200ml; Max 5600ml	

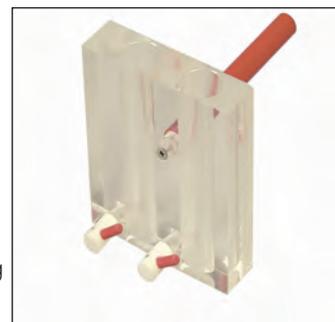
### 2-D and Electroblotting Modular Systems

Mini	Mini Wide	Maxi	Description
EL2200	EL2250	EL2300Z	Complete Electrophoresis System includes tube gel, blotting and vertical system
EL2320	EL2330	EL2340Z	Complete 2-D Electrophoresis includes tube and vertical system
EL2026	EL2096	-	Tube Gel Unit, with capillary tubes, blanking ports and cooling pack
EL2028	EL2098	EL2128Z	Tube Gel Insert includes glass tubes and blanking ports
EL2030	EL2030	EL2130	Capillary Tubes 1mm diameter
EL2356	EL2356	EL2132	Capillary Tubes 1.5mm diameter
EL2032	EL2032	EL2032	Capillary Blanking Ports
EL2400	EL2450	EL2500Z	Complete Blotting System includes vertical system and electroblotting
EL2402	EL2452	EL2502	Blotting System includes tank, 4 cassettes fibre pads and cooling pack
EL2404	-	-	Gel Tank and Blotting unit
EL2034	EL2114	EL2134	Blotting insert including cassettes and fibre pads
EL2036	EL2106	EL2136	Blotting Cassette
EL2038	EL2458	EL2138	Fibre Pads
EL2400-HI	-	EL2500Z-HI	Complete high intensity blotting system (Vertical system and blotting insert)
EL2034-HI	-	EL2134Z-HI	High-intensity blotting insert inc. cassettes and fibre pads

## Clarit-E® Accessories

### Gradient Mixers

Ideal for Caesium, Sucrose and Gel gradients these Gradient Mixers comprise two chambers – a reservoir and a mixing chamber with an interconnecting valve. A second valve regulates the output flow from the mixing chamber. All mixers have a flat base which allows them to be placed on a magnetic stirrer. A magnetic stirring bar can be placed directly in the mixing chamber to ensure a constant gradient. The support rod allows the mixer to be fixed to a retort stand for extra stability.



### Gradient Mixers

Catalogue Number	Description
EL2600	15ml Gradient Mixer
EL2610	25ml Gradient Mixer
EL2615	50ml Gradient Mixer
EL2620	100ml Gradient Mixer
EL2625	500ml Gradient Mixer

### Plate Racks

These sturdy racks are designed for safe drying and storage of glass plates. The small rack can hold up to 20x 2mm thick plates while the larger rack can accommodate up to 10x 5mm thick glass plates.



### Plate Racks

Catalogue Number	Description
EL2630	Mini Glass Plate Rack for 20 x 2mm plates
EL2640	Large Glass Plate Rack for 10 x 5mm plates

### Gel Staining/Blot Boxes

The ideal accessory for incubating blots or staining gels.

The smallest box has dimensions of 9.1 x 6.6cm and a capacity for 3-5ml of solution and is perfect for incubating cut blot strips.

The next box in the range holds 6-10ml of solution and is appropriate for mini gels and blots up to 11.7 x 8.9cm.

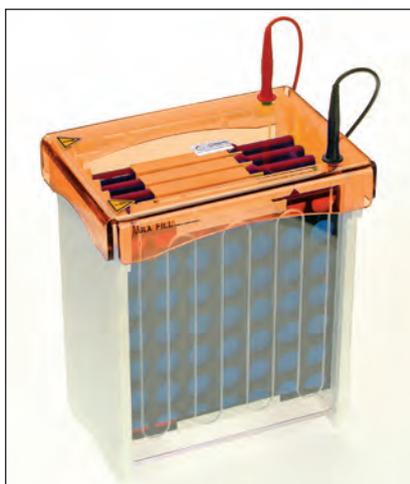
Two larger boxes, available in single packs, can be used for staining gels or incubating blots up to 12 x 12cm or 20 x 16.5cm respectively.

### Blot boxes

Catalogue Number	Description	Pack Size
EL9082	Gel/Blot box 9.1 x 6.6cm	10
EL9084	Gel/Blot box 11.7 x 8.9cm	10
EL9086	Gel/Blot box 12 x 12cm	Each
EL9088	Gel/Blot box 20 x 16.5cm	Each

## Clarit-E Tank Sub Electroblotters

- Ideal for wet electroblotting of proteins – Western blotting
- Up to five gel blot cassettes utilised at any one time
- Hinged cassettes for added convenience
- Accommodates gel thicknesses from 0.25 up to 3mm



Tank Sub Electroblotters offer a combination of increased capacity with money saving features. Both units, Mini 10 x 10cm and Maxi 20 x 20cm, have increased capacity over standard systems. This is especially useful in high throughput laboratories.

A uniform electric field is provided by a high intensity coiled electrode and ensures uniform transfer across the blot surface. The cassette's open architecture ensures the maximum blot area allows direct transfer of current. Its rigid construction ensures contact between the gel and membrane is retained throughout the blot and an even pressure is maintained. These units are compatible with magnetic stirrers to aid heat dispersal and prevent pH drifts in the buffer due to incomplete buffer mixing. Each system includes a cooling pack to further enhance transfer efficiency by removing excess heat. This also saves on buffer for added economy.

### Technical Specifications

Unit dimensions (W x D x H)	Mini	Maxi
	19 x 13 x 19cm	24 x 16 x 26cm
Max. sample capacity	5 Blots, 10 x 10cm	5 Blots, 20 x 20cm 20 Blots, 10 x 10cm
Buffer volume	Mini Maxi	Min 1400ml; Max1500ml Min 4300ml; Max 6000ml

### Tank Sub Electroblotters

Catalogue Number	Description
EL2412	Electro Blot Mini, 10 x 10cm System for five cassettes, with tank and lid, 5x Cassettes, 12x fibre pads and cooling pack
EL2512	Electro Blot Maxi, 20 x 20cm System for five cassettes, with tank and lid, 5x cassettes, 12x fibre pads and cooling pack
EL2036	Tank Blot Mini Cassette
EL2038	Fibre Pads - pack of 6 for Vertical Mini
EL2136	Tank Blot Maxi Cassette
EL2138	Fibre Pads - pack of 6 for Vertical Maxi

## Clarit-E Semi-Dry Electroblotters



- Rapid transfer times
- Western, Southern and Northern Blots
- Economic Transfers due to very low buffer volumes
- Screw down lid – Gels from 0.25 up to 10mm thick can be blotted

These Semi-Dry Blotters offer rapid transfer times for DNA, RNA and protein blotting - typically 15 to 30 minutes. All units can be used for all types of blotting via uncomplicated set up procedures. Each unit is compatible with their respective Clarit-E vertical gel system. The electrodes, comprising platinum coated anode and stainless steel cathode, will exhibit practically no corrosion and so provide many years of trouble-free use. Uniform heat dispersion across the blot sandwich ensures stable transfer times and no heat induced sample loss or transfer distortions. The two larger format systems are translucent, enabling viewing of the blot sandwich to ensure correct positioning and transfer is occurring. Electrode plates are fully separated to prevent arching or damage.

### Technical Specifications

Unit dimensions (W x L x H)	Mini	Maxi
	16 x 16 x 7cm	26 x 26 x 7cm
Max. sample capacity	Mini Maxi Maxi	1 Blot, 10 x 10cm 1 Blot, 20 x 20cm 4 Blots, 10 x 10cm
Buffer volume	Mini Maxi	5ml 20ml

### Semi Dry Electroblotters

Catalogue Number	Description
EL2460	Semi Dry Mini Blotter 10 x 10cm system
EL2465	Semi Dry Maxi Blotter 20 x 20cm system

## Clarit-E® Dot and Slot Blotters



- Low cost
- Simple construction
- Easy assembly
- Alphanumeric sample identification

Four different sample number size and styles of Hybridisation Manifold are offered: 48- or 96-Well dot blotter and 24 or 48-Well slot blotters.

Typical applications include clone screening with DNA/ RNA probes in Southern/Northern blots and immunological screening with antibodies in western blots.

The units incorporate precision lapped surfaces to ensure uniform blotting membrane contact and a leak-proof gasket. These prevent lateral transfer of samples – smudging – by ensuring that a complete vacuum is formed. Six thumbscrews ensure even and tight sealing for fast sample suck down.



Technical Specifications				
<b>Model</b>	EL2448	EL2496	EL2524	EL2548
<b>Configuration</b>	3 x 16	8 x 12	2 x 12	3 x 16
<b>Size of Well</b>	6mm dia. 12mm deep	6mm dia. 12mm deep	6 x 0.5mm 12mm deep	6 x 0.5mm 12mm deep
<b>Vacuum required</b>	600mg Hg 0.8 BAR with cold trap			
<b>Unit dimensions (W x L x H)</b>	60 x 95 x 100cm	60 x 105 x 140cm	60 x 74 x 83cm	60 x 95 x 100cm
<b>Membrane sizes required</b>	12.1 x 4.4cm	11 x 7.4cm	12.1 x 4.4cm	12.1 x 4.4cm

Dot and Slot Blotters	
Catalogue Number	Description
EL2448	Dot Blotter 48 sample
EL2496	Dot Blotter 96 sample
EL2524	Slot Blotter 24 sample
EL2548	Slot Blotter 48 sample

## Clarit-E® Gel Drying

### Dryer

With a drying area of 21 x 31cm, the Midi gel dryer can dry six 10 x 10cm gels or a single larger gel. The Maxi Gel Dryer with a 35 x 45cm drying area can dry twelve 10 x 10cm mini gels simultaneously. The unit's microprocessor controls temperature and time, each parameter being displayed on its own LED display. The gels are heated from the base plate while the vacuum removes the moisture from below to dry the gel homogeneously. These dryers feature optimal sealing using a silicone rubber cover and supporting mask.



Technical Specifications	
<b>Dryers -</b>	
<b>Temperature Increment</b>	0.1C
<b>Temperature Calibration</b>	Yes
<b>Temperature Uniformity</b>	0.2C
<b>Timer</b>	1-999 mins
<b>Drying area</b>	Midi 21 x 31cm, Maxi 35 x 45cm
<b>Operating Temp. Range</b>	Ambient to 90C
<b>Dimension (W x L x H)</b>	Midi 30 x 36 x 8cm, Maxi 44 x 50 x 8cm
<b>Pump -</b>	
<b>Condenser vapour capacity</b>	1.5L
<b>Dimensions (W x L x H)</b>	35.5 x 28.5 x 39cm

### GelMaster™ Vacuum Pump

- Two pumps in one – vapour trap and high efficiency diaphragm pump
- Environmentally friendly – traps and contains vapours



The room temperature vapour trap acts as a pump by condensing the hot vapours from the gel dryer and trapping them from the rest of the systems. The high efficiency diaphragm pump, delivers a powerful, non-fluctuating vacuum for fast, smooth drying. GelMaster™ is so efficient it can be connected to 3 gel dryers simultaneously. 10-15 gels can be dried before the trap needs to be drained. The GelMaster™ trapping medium can be used repeatedly.

Gel Drying	
Catalogue Number	Description
EL8800	Midi Gel Dryer 220V, 21 x 31cm
EL8810	Maxi Gel Dryer 220V, 35 x 45cm
EL8815	Gelmaster Vacuum Pump
EL8830	Cellophane sheets for gel drying (30 x 30cm) - pack of 100
EL8835	Cellophane sheets for gel drying (35 x 45cm) - pack of 100

## Clarit-E<sup>®</sup> Maxi and Midi Power Supplies



These 3 models of power supply cater for a wide range of applications. All 3 models have 5 output pairs, and can have voltage, current or power set as the constant parameter. Loaded with pre-set programmes for instant start up, or create and save your own protocols with up to 6 steps per programme. A 2.4" TFT-LCD Screen displays the current running parameters and allows the user to browse pre-set and saved protocols.

The convenient pause/resume key allows any run to be temporarily halted for inspection of the gel and restarted from the same position. A run time extendable to a maximum 999 minutes in constant mode is also useful for overnight transfers undertaken at constant low current in wire electrode systems.

### Midi300

The Midi300 is a versatile multi-function power supply suitable for a wide range of electrophoresis applications. At 300V, 700mA and 150W the Midi300 has nearly twice the current and power of the market leading equivalent unit. Perfectly suited for use with the Clarit-E range of horizontal electrophoresis systems and Clarit-E Mini vertical electrophoresis systems.

### Maxi500

With a maximum 500V, 800mA and 300W voltage, current and power output, the Maxi500 is an excellent general-purpose power supply that fits the broadest range of electrophoresis applications. Perfect for techniques that benefit from subtle and gradual stepwise changes in the electrical parameters as the run progresses, such as DGGE and large format vertical PAGE using Clarit-E Maxi Z electrophoresis systems.

### Maxi3AMP

At 300V, 3000mA, 300W, the Maxi3AMP is designed for virtually all high current electrophoresis applications. The Maxi3AMP's higher current output capability is perfect for electroblotting units with high-intensity plate electrodes, particularly Clarit-E Maxi Z blotting system, Maxi Z vertical electrophoresis and semi dry blotting systems. Electrotransfers may be performed as timed runs in constant or programmable mode to prevent overheating and buffer depletion.

#### Technical Specifications

	EL2732	EL2742	EL2752
	Midi300	Maxi500	Maxi3Amp
<b>Output Voltage / Inc.</b>	5-300V / 1V	5-500V / 1V	5-300V / 1V
<b>Output Current / Inc.</b>	1-700mA / 1mA	1-800mA / 1mA	1-3000mA / 1mA
<b>Output Power / Inc.</b>	150W / 1W	300W / 1W	300W / 1W
<b>Output Type</b>	Constant Voltage ; Current ; Power		
<b>Output Pairs</b>	5 pairs for multiple gel tanks		
<b>Display</b>	2.4" TFT-LCD		
<b>Program</b>	Pre-setting; Up to 6-step, 30 programmed files		
<b>Timer</b>	Constant mode: 9999 (min) with alarm Programmable mode: 999 (min) with alarm		
<b>Rated voltage</b>	100-240V		

#### Maxi Power Supplies

Catalogue Number	Description	Application
EL2732	Midi300 Power Supply, 300V, 700mA, 150W	Routine horizontal electrophoresis using Clarit-E Mini, Midi and Choice Vertical Electrophoresis using Clarit-E Vertical Mini
EL2742	Maxi500 Power Supply, 500V, 800mA, 300W	Routine horizontal electrophoresis using Clarit-E Mini, Midi and Choice Vertical Electrophoresis using Clarit-E Vertical Mini Clarit-E DGGE Vertical Electrophoresis using Clarit-E Vertical Maxi Z
EL2752	Maxi3AMP Power Supply, 300V, 3A, 300W	Vertical Electrophoresis using Clarit-E MaxiZ Blotting using MaxiZ blotters and semi-dry blotters

## Clarit-E<sup>®</sup> Mini-300 and Mini-500 Power Supplies



- Enhanced in-built safety features
- Conspicuous 3-digit LED
- Alarm function
- New wipe-clean polycarbonate housing

Superseding the MINI 150V and MINI 300V, the new Mini-300 and Mini-500 power supplies, offer many of the benefits of the MIDI power pack, for the price of a MINI unit. With enhanced features, such as a maximum constant current output of 400mA, and constant voltage up to 300V or 500V. The Mini-300 is capable of running all Clarit-E horizontal electrophoresis systems and vertical mini gel units, either on a continuous run or timed setting of up to 999 minutes.

The Mini-500 is also suitable to run the Mini Wide and Maxi Vertical units.

The user-friendly interface of the Mini-300 and 500 means adjustment in 1V and 1mA increments is easy, making it perfect for separations where precise settings are required.

Both Mini units have two pairs of parallel power terminals, which can run two electrophoresis units simultaneously, and combined with their ultra-compact size, can save time and bench space. A dual voltage rating ensures full portability, and allows easy transportation between laboratories irrespective of their geographical location.

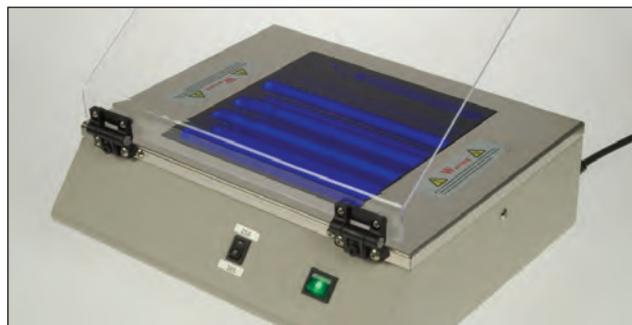
### Technical Specifications

Mini	EL2705	EL2707
<b>Voltage</b>	10-300V	10-500V
<b>Current</b>	10-400mA	10-400mA
<b>Max. Power</b>	60W	120W

### Mini-300 & Mini-500 Power Supplies and Accessories

Catalogue Number	Description	Pack Size
EL2705	Mini-300 Power supply, 300V, 400A, 60W	Each
EL2707	Mini-500 Power supply, 500V, 400mA, 120W	Each
EL2701	Power supply adapters, 4mm to 4mm	2
EL2702	Power supply adapters, 4mm to 2mm	2
EL2703	Power supply adapters, 2mm to 4mm	2

## Clarit-E<sup>®</sup> Transilluminators



- Three wavelength options for added flexibility and convenience: 254/312/365nm
- Two dual-wavelength models
- Long life filter in two size options
- High efficiency reflector
- Hi/Lo intensity switch
- Fast start up

Available in single and dual wavelength formats, in 21 x 21cm and 21x26cm sizes, our transilluminators are supplied either as stand-alone units or with the gel documentation system, as part of a fully integrated system. With a large surface area, each transilluminator serves as the perfect workstation for viewing and working with fluorescently-stained protein and nucleic acid gels.

Standard features include a high/low intensity safety switch and an efficient starter that allows each of the six 8 Watt UV tubes to energise quickly without flickering, prolonging the working life of the UV tubes. Special filter glass minimises unwanted background light. All of these features maximise contrast and sensitivity, allowing even the faintest fluorescent gels to be viewed. Two dual-wavelength models offer added flexibility and convenience.

### Technical Specifications

	Small	Large
<b>Filter size</b>	21 x 21cm	26 x 21cm
<b>Light source</b>	8W x 6 tubes	8W x 6 tubes
<b>UV resistant plastic cover (W x D)</b>	33 x 25cm	33 x 25cm
<b>Unit dimensions (W x L x H)</b>	34 x 29.5 x 10cm	34 x 29.5 x 10cm

### Transilluminators

Catalogue Number	Description
EL4150	UV Transilluminator small, 21 x 21cm, 254nm
EL4160	UV Transilluminator small, 21 x 21cm, 312nm
EL4170	UV Transilluminator small, 21 x 21cm, 365nm
EL4200	UV Transilluminator small, 21 x 21cm, 254/365nm
EL4210	UV Transilluminator small, 21 x 21cm, 254/312nm
EL4230	UV Transilluminator large, 26 x 21cm, 254nm
EL4240	UV Transilluminator large, 26 x 21cm, 312nm
EL4250	UV Transilluminator large, 26 x 21cm, 365nm
EL4260	UV Transilluminator large, 26 x 21cm, 254/365nm
EL4270	UV Transilluminator large, 26 x 21cm, 254/312nm

## Clarit-E<sup>®</sup> Gel Documentation System

- 18 Megapixel digital camera with improved high-sensitivity CMOS sensor and processor
- Image visualised within a large 8" TFT colour monitor
- Light weight compact hood with easy access door and built-in inner lights
- Safety switches disconnect the UV source when the easy access door is opened
- Computer-free operation
- Available on its own with camera and darkroom, or as a complete gel documentation system with transilluminator, either with or without software and wireless memory card



Technical Specifications	
Camera Type	Large APS-C CMOS sensor
Effective Pixels	18 megapixels
Maximum Aperture	f/3.5-5.6
Shutter Speed	30-1/4000 sec. (total range)
Filters	+3 Close up and EtBr; optional SYBR green
Storage Media	4GB memory card; optional Wi-Fi memory card
Computer Interface	Hi-Speed USB (Mini-B compatible)
Video Out	NTSC/PAL
Darkroom: Multi-power Source	For camera, inner white LED, TFT screen
Inner White Light	2 x 3W LED
Safety Device	Safety door switch
Weight & Dims	6.1kg; 29 x 22 x 32cm
Voltage Rating	110 ~ 220V
Screen: Resolution	600 x 800 pixels
Brightness	350 cd/mm <sup>2</sup>
Constant Ratio	300 : 1
Display Mode	NTSC / PAL / SECAM mode, auto switching

Now upgraded to a new 18 megapixel digital camera with improved high-sensitivity CMOS sensor and the latest image processor to guarantee superb resolution, the Clarit-E Gel Documentation System is the researcher's choice for a simple ultra-compact gel documentation system that meets constraints in both budget and space within the laboratory. A large 8" TFT screen enables images, including agarose and fluorescent gels, colorimetric gels, autoradiography film and blotting membrane, to be captured in colour, clearly and easily. The system is computer-free and supplied with a 4GB storage card and 55mm ethidium bromide filter as standard, while an optional SYBR filter is also available. Files are saved onto the 4GB storage card in RAW, TIFF-RGB and JPEG formats and may be transferred to computer for analysis with the highly recommended TotalLab 1D software.

### Wireless Transfer

This clever system includes convenient wireless transfer of images to a PC or smart device – no cable connection required.

The Clarit-E Gel Documentation System is a simple low-cost system comprising a lift-off dark room hood and 18 megapixel digital camera, through which the gel is viewed directly. This system can be supplied with optional TotalLab™ 1D Analysis Software and any one of our 21 x 21cm transilluminators. Transilluminators supplied in single and dual wavelength formats.

### Gel Documentation System

Catalogue Number	Description
EL4000	Gel Doc System, including 18 megapixel digital camera, camera adaptor, 8" TFT colour screen, ethidium bromide filter, camera hood
EL4020	Gel Doc System with UV Transilluminator, 254nm
EL4010	Gel Doc System with UV Transilluminator, 312nm
EL4030	Gel Doc System with UV Transilluminator, 365nm
EL4040	Gel Doc System with UV Transilluminator, 254/312nm
EL4050	Gel Doc System with UV Transilluminator, 254/365nm
EL4080	Ethidium Bromide Filter
EL4090	SyBr Green Filter
EL4072	Thermal Printer with USB connection
EL4075	Replacement Paper for Thermal Printer
EL4100	UV to White Light Transilluminator Screen Converter
EL4002*	Gel Doc System with ID analysis software

\* Software can be included with any gel doc system - please enquire for pricing

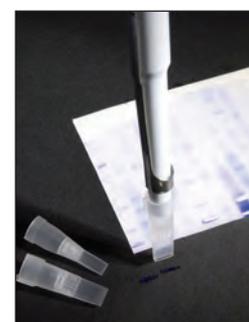
## Clarit-E<sup>®</sup> Gel Cutting Tips

### A great new tool for Gene Cloning

Rapid, precise and contamination free excision of spots and bands from gels

- Eliminates scalpel damage to transilluminator or gel tray
- Designed for removing bands from agarose and protein gels
- Easy gel slice transfer tips fit standard 1000µl pipettors
- Autoclavable
- DNase and RNase free
- Sterile racked versions are also available

No more scalpels required, these tips offer a unique and convenient way to excise bands from gels. Gel cutting tips allow complete single-handed and contamination-free removal of the gel band of interest. The gel band is neatly extracted and contained in the tip. It can then be simply dispensed into a tube and the used tip ejected and disposed of.



### Gel Cutting Tips

Catalogue Number	Description
EL2650	Gel Cutting Tips 4mm x 1mm 250 / bag
EL2650R	Gel Cutting Tips 4mm x 1mm 5x rack of 48
EL2660	Gel Cutting Tips 6.5mm x 1mm 250 / bag
EL2660R	Gel Cutting Tips 6.5mm x 1mm 5x rack of 48

## Heat, Cool, Mix, Stir, Separate, Shake

The multitude of tasks undertaken in most laboratories require a range of reliable workhorse equipment.

Having these close at hand on the bench top improves process work flows and efficiencies.

Our range of bench top equipment provides economical, hard-working tools to complete those routine every day tasks with maximum ease.

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## Hybridisation Shaking Incubators

With a compact, space-saving stackable design and temperature uniformity to within  $\pm 0.2^{\circ}\text{C}$ , Alpha Laboratories' hybridisation shaking incubators can be used for numerous temperature-dependent laboratory applications.

In addition to the standard entry-level model, the range includes four incubator models, each supplied in one of four shaking platform formats – vortex, orbital, reciprocal or rocking - and customisable for nucleic acid hybridisation techniques with three rotisserie options.

A large 3.6 inch colour-touchscreen control panel simplifies manipulation of speed, temperature and time within an easy to programme 3-line display, while a 32-bit microprocessor provides the temperature uniformity and stability necessary to support the most temperature-sensitive applications.

A modern design, stylish front door panel closes upon the stain-resistant interior of a robust metal chassis designed to withstand the stresses of frequent daily usage.

Five models are available in standard, vortex, orbital, reciprocal and rocking shaking-platform formats.

### Typical Applications

- Overnight cultures
- Staining, blocking and antibody incubations
- Nucleic acid hybridisation

Shaking platforms in orbital and reciprocal models may be modified with the addition of flask holders to accept 5 x 250ml (EL9662) and 4 x 500ml (EL9664) flasks.

An additional 27 x 20cm platform (EL9660) is available to double the capacity in the orbital and reciprocal models.

Each model (except standard) is customisable for hybridisation applications with three rotisserie options.



EL9662



EL9660



EL9654 for 8x40mm glass tubes



EL9656 and EL9658 for 16x50ml & 24x15ml conical tubes

## Standard

The Standard model is a cost-effective system for homogeneous temperature control during routine incubations. Advanced ventilation design technology controlled by a digital microprocessor maintains temperature uniformity and stability to within  $\pm 0.2\text{C}$ . A stain-resistant interior protects against spillages, while removable stainless steel mesh shelves ensure that airflow remains unrestricted. Incubations may be set in precise 0.1C increments under a continuous or programmable timer function.

## Vortex

The Vortex model has the same features as the Standard, but also includes a vortex platform for four microplates. The vortex platform is 20 x 30cm in size, and microprocessor-controlled to vibrate at speeds ranging from 50-1500 rpm. Three optional rotisseries may be purchased separately to allow the unit to be adapted for hybridisation techniques performed in 40mm, 15ml and 50ml tubes.

## Orbital

The Orbital model includes as standard a bi-directional 27 x 20cm orbital shaking platform that exhibits both clockwise and anti-clockwise motion. Optional flask holders may be fitted to the orbital shaking platform to accommodate up to five 250ml or four 500ml flat-bottomed flasks, making this model a suitable bench-top shaker for growing overnight cultures of bacteria, yeast and insect cells. The shaking platform may be replaced by one of three optional hybridisation rotisseries, which may be purchased separately.

## Reciprocal

The Reciprocal model is a 27x20cm reciprocal shaking platform incubator that may be adapted to accommodate 250ml and 500ml flat-bottomed flasks. The shaking-platform has a reciprocal motion that is perfect for incubation of Western blots and microbial cultures, and may be replaced by one of three optional hybridisation rotisseries. An optional platform with four 10cm pillars mounts comfortably on the shaking platform to double capacity if required.

## Rocking

The Rocking model includes a 27x20cm rocking platform to provide the perfect motion and tilt angle to prevent gels and membranes from drying out during staining, blocking and antibody incubations. Interchangeable hybridisation rotisseries may be exchanged for the rocking platform to allow the unit to be customised for the full range of nucleic acid hybridisation applications, including Northern and Southern blotting techniques.

Technical Specifications	
<b>Display</b>	3.5" 64K colour-TFT display
<b>Controller</b>	32-bit Microdispenser-control
<b>Control Interface</b>	Touch screen & Graphical interface
<b>Timer/Resolution</b>	Continuous; Programmable 1-9999' with alarm / 1'
<b>Temperature Control Range/Resolution</b>	Ambient +5C to 85C / 0.1C
<b>Temperature Uniformity/Accuracy at 37C</b>	$\pm 0.2\text{C}$
<b>Temperature Calibration</b>	Yes
<b>Dimensions W x D x H Inner Chamber</b>	34 x 22.5 x 26cm
<b>Exterior</b>	44.2 x 46.2 x 45.2cm
<b>Platform Dimensions</b>	27 x 20cm (20 x 30cm for Vortex model)
<b>Data-logging capacity</b>	RS-232
<b>Operating Voltage</b>	110/220V ~ 50/60Hz (Dual, selectable)
<b>Construction/Weight</b>	Painted metal chassis; ABS front door panel / 29kg
<b>Safety features</b>	Safety-door and thermal safety switches; auto shut-off upon fan failure; auto-recovery after power failure

*N.B. Alpha Laboratories reserves the right to change the specification without notice*

## Hybridisation Shaking Incubators

Catalogue Number	Description
EL9600	Standard incubator with stainless steel mesh shelves
EL9630	Vortex incubator with 20 x 30cm platform for 4 x microplates
EL9620	Orbital shaking incubator with 27 x 20cm platform
EL9640	Reciprocal shaking incubator with 27x20cm platform
EL9610	Rocking shaker incubator with 27 x 20cm platform

NB: none of the above include a rotisserie, these are available to purchase separately to fit the Vortex, Rocking, Orbital or Reciprocal models.

## Hybridisation Shaking Incubator Accessories

Catalogue Number	Description
EL9650	Stainless steel mesh plate 32.5 x 34.5cm with 4 x holders
EL9654	Rotisserie for 8 x 40mm glass tubes (EL9666, EL9668, EL9670) (Tube not included)
EL9656	Rotisserie for 16 x 50ml disposable conical tubes (tubes not included)
EL9658	Rotisserie for 24 x 15ml disposable conical tubes (tubes not included)
EL9666	Glass tube 40 x 150mm (D x L) for EL9654
EL9668	Glass tube 40 x 200mm (D x L) for EL9654
EL9670	Glass tube 40 x 300mm (D x L) for EL9654
EL9660	Additional 27 x 20cm platform (with 4 x 10cm pillars) to double capacity of Orbital and Reciprocal incubators
EL9662	250ml flask holder for Orbital and Reciprocal incubators
EL9664	500ml flask holder for Orbital and Reciprocal incubators



## Hotplates and Stirrers



These hotplates, stirrers and hotplate-stirrers feature an exceptionally durable, chemical resistant, white ceramic work surface. Their space-efficient design (20 x 23cm footprint, 19cm square work surface) makes them ideal for use on crowded bench tops and inside cabinets.

Advanced micro-dispenser controls allow quick, precise adjustment and maintenance of speed and temperature. Safety indicator LEDs on the front panel indicate when the heating and/or stirring functions have been activated. All three models are compatible with a wide variety of popular sizes of borosilicate glass beakers, flasks, bottles and other vessels.

All models are supplied with a support rod for mounting thermometers and temperature probes.

### Technical Specifications

<b>Speed range</b>	60 - 1500rpm
<b>Temperature range</b>	Ambient +5 to 380C
<b>Platform</b>	19 x 19cm
<b>Control</b>	Quick Adjustment Knobs
<b>Dimensions W x D x</b>	20 x 23 x 11.5cm
<b>Electrical Data</b>	120V, 60Hz / 230V, 50/60Hz
<b>Electrical Data</b>	120V, 60Hz / 230V, 50/60Hz

### Hotplate and Stirrers

Catalogue Number	Description	Pack size
EL9000	Hotplate, 19 x 19cm	Each
EL9010	Magnetic Stirrer, 19 x 19cm	Each
EL9020	Hotplate Magnetic Stirrer, 19 x 19cm	Each

## Peristaltic Pump

This versatile peristaltic pump is an ideal accessory for gradient gel formation

### Peristaltic Pump

Catalogue Number	Description	Pack size
EL9701	Peristaltic Pump 30-300rpm	Each

Technical Specifications	EL9701
<b>Variable Flow Rate</b>	1.2 - 1,140 ml/min
<b>Pump Speed/Inc.</b>	20 - 300 rpm/ 1rpm
<b>Motor</b>	Brushless Motor
<b>Number of Rollers</b>	1
<b>Operating Temperature</b>	Ambient to 40°C
<b>Dimensions W x D x</b>	20 x 34 x 13cm
<b>Electrical Data</b>	50W, 100V ~ 240V



## Mini 3D Shaker

The Mini Shaker combines the motions of orbital shaking and rocking to produce a gentle, but thorough, 3-D action that is perfect for antibody incubation of Western blots and for staining gels.

The pitch and speed are optimised to generate a tilt angle that is large enough to ensure uniform distribution of solutions, yet small enough to prevent the centre of the blot from drying out. This has the added benefit of allowing users to work with minimal volumes, thus conserving valuable probes and antibodies.

A non-slip rubber mat keeps the boxes in place on the agitating platform, which, along with the housing, is very easy to clean and decontaminate after use.

The Mini Shaker's compact and light weight design allows it to be moved around the lab where needed. It is also safe for use in an incubator or cold room for temperature controlled reactions.

- The perfect speed and lift for blotting and gel staining
- Three-Dimensional motion
- Designed for use with Blot Boxes



### Technical Specifications

<b>Speed range</b>	18rpm (115V) / 20rpm (230V)
<b>Motion</b>	3-D, nutating
<b>Tilt Angle</b>	5 degrees
<b>Platform Size W x D</b>	20 x 16.5cm
<b>Ambient Operating Range</b>	4 - 65C
<b>Dimensions W x D x H</b>	9.75 x 6.75 x 6in / 24 x 17.15 x 15cm
<b>Weight</b>	0.88kg
<b>Electrical</b>	115 or 230V 50/60Hz

### Mini 3D Shaker

Catalogue Number	Description	Pack size
EL9080	Mini Shaker with 20 x 16.5cm tray, 2 x blotting boxes, non-slip mat	Each



## Waver Shaker

The Waver Shaker range of multi-functional mixing devices includes high durability models for reciprocal, orbital, rocking and a combination model for maximum performance and versatility. Each of the four models provides outstanding uniform motion control. This range of shakers is ideal for bench tops, incubators and in cold rooms.



Take a look at the outstanding features:

- Microprocessor based keypads with digital controls allow simple adjustments
- Display shows preset time, continuous time, action scale and speed
- Lightweight and compact, for easy mobility, super quiet for optimum lab comfort
- High quality, stainless steel platforms include pop-on / pop-off installation holes for securing samples
- Additional platforms can be added for increased capacity

**Waver Shaker Combi** – combines three-dimensional shaking and rocking for maximal fluid movement. It can exactly control agitation due to its microprocessor controller and timer. This unit contains a larger 33 x 33cm stainless steel or acrylic platform. The platform angle is easily adjusted from 0 to 25 degrees and the rotation speed of the platform can be adjusted from 0 to 100rpm.



### Waver Shaker Orbital

0.1 ~ 10.0 circular ; 0.1 circular increment  
Platform 26 x 26cm



### Waver Shaker Reciprocal

1 ~ 10 for 2.0 ~ 20 mm ; 1 scale increment  
Platform 26 x 26cm



### Waver Shaker Rocking

1 ~ 10 for 1.2 ~ 12mm ; 1 scale increment  
Platform 26 x 26cm

Technical Specifications	EL9040	EL9050	EL9060	EL9070
<b>Motion</b>	Orbital	Reciprocal	Rocking	2D or 3D Combi
<b>Stroke Length</b>	20mm	20mm	12mm	20mm
<b>Operation Mode</b>	Orbital: 0.1 ~ 10.0 Circular: 0.1 Circular	Reciprocal: 1 ~ 10 for 2.0 ~ 20mm; 1 scale increment	Rocking: 1 ~ 10 for 1.2 ~ 12mm; 1 scale increment	Orbital and Rocking combined
<b>Speed</b>	0 ~ 200rpm	0 ~ 200rpm	0 ~ 200rpm	0 ~ 100rpm
<b>Time</b>	0 ~ 9999mins, 1min increment			
<b>Controller</b>	Digital microdispenser			
<b>Display</b>	4 digital red LED			
<b>Operating</b>	4 ~ 65	4 ~ 65	4 ~ 65	0 - 50
<b>Carry Capacity</b>	15kg			
<b>Special Functions</b>	-	-	-	Adjustable Platform Angle 0-25 degree
<b>Platform</b>	W260 x L260mm			
<b>Operating Power</b>	110 / 220V			
<b>Weight</b>	8kg			

Waver Shaker		
Catalogue Number	Description	Pack Size
EL9040	Waver Shaker Orbital	Each
EL9050	Waver Shaker Reciprocal	Each
EL9060	Waver Shaker Rocking	Each
EL9070	Waver Shaker 3D Combi	Each

Waver Shaker Accessories	
Catalogue Number	Description
EL9036	Strip Springs for orbital, reciprocal, or rocking (pack of 2)
EL9075	Hybridisation Water Bath for Waver Shaker
EL9037	33 x 33cm platform with 4 of adjustable 10cm or 20cm pillars and flat non-slip rubber mat
EL9039	Strip Springs for 2/3D Combi Shaker (pack of 2)
EL9531	Dimpled Mat 33 x 33cm

## Vortex Mixer

Alpha Laboratories' variable speed Vortex Mixer combines fast, efficient mixing with minimal vibration. Unlike other vortex mixers using elliptical orbits, the true circular orbit facilitates uniform sample vortexing even at low speed.

The CombiCup™ head, which is supplied as standard, accepts many different tube sizes, while the unique over-moulding technology used in its manufacture provides a sturdy plastic core with non-slip TPE that fits optional heads for microplates, microtubes, PCR strip tubes, 15ml and 50ml tubes and blood vials.

The Alpha Laboratories' vortex mixer may be used in 'touch' or continuous mode: 'touch' mode being activated by simply depressing the sample head and then stopped by releasing the pressure. An optimised counter balance system within the vortex mixer minimises vibration and movement of the unit during operation.

Its lightweight construction and small footprint allows it to be readily transported and used in areas where space is restricted. The vortex mixer is also safe for use in temperature-controlled environments, and may be used within a cold room.

- Touch or continuous mode
- Powerful, reliable motor with optimised counter balance
- Circular orbit for effective vortexing at any speed
- CombiCup head accepts a variety of tube sizes
- Versatile head attachment accessories for microplates and different tube sizes
- Suitable for a wide range of applications



Technical Specifications	
Speed range	115V: 0 - 3400rpm 230V: 0 - 2850rpm
Operating Modes	Touch or Continuous
Ambient Operating Range	4 - 65C
Dimensions W x D x H	5.5 x 6.3 x 5.1 in/14 x 16 x 13cm
Weight	4.84lb / 2.2kg
Electrical	115V or 230V, 50/60Hz

Vortex Mixer	
Catalogue Number	Description
EL5010	Vortex mixer with general purpose head
EL5012	Vortex Head - 32 x 0.2ml tubes or 4 x 8-strip tubes plus 24 x 0.5ml tubes and 24 x 1.5ml/0.2ml tubes
EL5014	Vortex Head - 1 x microplate or 64 x 0.2ml tubes or 8 x 8-strip tubes
EL5016	Vortex Head - 8 x 15ml and 8 x 12/13mm tubes
EL5018	Vortex Head - 6 x 50ml tubes
EL5020	Vortex Head - 12 x 1.5/0.2ml tubes, held horizontally
EL5022	Vortex Head - 4 x 15ml tubes, held horizontally
EL5024	Vortex Head - 2 x 50ml tubes, held horizontally



## Mini PCR Workstation

You can eliminate contamination from your PCR reactions and other molecular biology applications with Alpha Laboratories' PCR Workstation, saving time, money and valuable samples. The Mini UV Workstation provides a convenient area for setting up PCR reactions in a nucleic acid free environment, thus limiting PCR reaction contamination.

Acting as a low cost alternative to a clean room, The powerful UV lights on the cabinet denatures nucleic acids in 5 to 30 minutes making them unsuitable for amplification. The cabinet incorporates safety features to prevent user exposure to UV light. The UV lights themselves are timer controlled and there are safety switches on the cabinet's doors, which turn off the UV lights when opened. The cabinet also acts as an efficient shield from beta radioactive emissions, and can therefore be safely used with isotopes such as  $^{32}\text{P}$ .

Small and compact, the Mini UV Workstation is the perfect solution for laboratories constrained by space and budget. A reduced height and footprint allows the Mini UV Workstation to fit snugly and conveniently into those small areas within the laboratory that would otherwise remain unused.

- Inactivates nucleic acids in 5 to 30 minutes
- Doors fitted with safety switches
- Complete with four powerful, timer controlled UV bulbs
- Efficient decontamination of the complete work surface
- Suitable for work with  $^{32}\text{P}$
- For use with trays of size 68 x 54cm  
Open base so must be used with a tray
- Dimensions (W x D x H) 560 x 350 x 510mm



### Accessories

EL2670 Liners for PCR Workstation 68cm x 54cm

EL2680 General Purpose Tray 68 x 54cm - White

### Technical Specifications

UV Lights	4 x 15 Watt
White Light	15 Watt
Dimensions (H x W x D)	510 x 560 x 350mm
Weight	12kg

### Mini PCR Workstations

Catalogue Number	Description	Pack Size
UV1000	Mini PCR Workstation (requires additional base tray)	Each

## Protective Trays and Liners

Protective spill trays and liners provide safe containment of spillages and lab bench protection. EL2670 and EL2680 are suitable for use with the Mini PCR Workstation



### Protective Trays and Liners

Catalogue Number	Description	Pack Size
EL2661	Tray Liners APET 46x26cm	25
EL2662	Tray Liners APET 54x34cm	25
EL2670	Tray Liners APET 68x54cm for PCR Workstation	25
EL2671	Biohazard Tray 46x26cm, White	Each
EL2672	Biohazard Tray 54x34cm, White	Each
EL2680	General Purpose Tray 68 x 54cm, White, for PCR WS	Each
EL2682	General Purpose Tray 54x34cm, White + APET liner	Each
EL2674	Biohazard Tray 68x54cm, White + APET liner	Each



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# Contact Details



## Use

Alpha Laboratories' products are recommended for *in vitro* applications only. They should not be used for handling materials that may be implanted, ingested or applied to individuals.

## Handling

It is recommended that Alpha Laboratories' products are handled only by trained personnel. MSDS are available where applicable and can be requested from [export@alphalabs.co.uk](mailto:export@alphalabs.co.uk)

## Certification

If you require sterility or similar certification, please request by email detailing the catalogue and lot numbers with the type of certification required to [export@alphalabs.co.uk](mailto:export@alphalabs.co.uk)

## Terms

Terms are available on our website or upon request.

## Registered Address

Alpha Laboratories Ltd.  
40 Parham Drive,  
Eastleigh,  
Hampshire SO50 4NU,  
UK

**Telephone:** +44 23 8048 3000

**Fax:** +44 23 8064 3701

**Company Reg. No.** 1215816 England

**VAT No.** GB 228 2205 88

## Bank:

### Barclays Bank plc

Level 27,  
1 Churchill Place,  
London, E14 5HP, UK

## Account and IBAN Numbers:

**Sort Code:** 20-03-53

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Alpha Laboratories operate world-wide, with a network of laboratory supply companies, so all the products featured in this catalogue should be available to you from a local distributor. However, should you require technical advice or experience problems with local supply, please do contact our Export Department who will be pleased to assist you.



## Objednávejte zde

Společnost Alpha Laboratories spolupracuje s celosvětovou sítí výrobců spotřebního plastového laboratorního zboží. Všechny produkty obsažené v tomto katalogu jsou dostupné prostřednictvím Vašeho lokálního distributora.

V případě potřeby technických informací nebo doporučení, kontaktujte prosím naše oddělení exportu, které Vám rádo pomůže tyto problémy vyřešit.



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Alpha Laboratories har et verdensomspændende netværk af leverandører af laboratorieprodukter. Derfor bør alle produkterne der er præsenteret i dette katalog være tilgængelig for dig hos din lokale leverandør. Skulle du have behov for tekniske råd eller har problemer med den lokale leverandør, er du velkommen til at kontakte vor Eksport afdeling.



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Alpha Laboratoriexsella on yhteistyöryhtyksiä ympäri koko maailman. Omalta edustajaltanne voitte tilata kaikkia luettelossa olevia laboratoriotarvikkeita. Paikallinen edustajamme auttaa Teitä myös kaikissa teknisissä kysymyksissä. Jos kuitenkin tahdotte ottaa yhteyttä niissä suoraan vientiasastoomme, niin autamme mielellämme.



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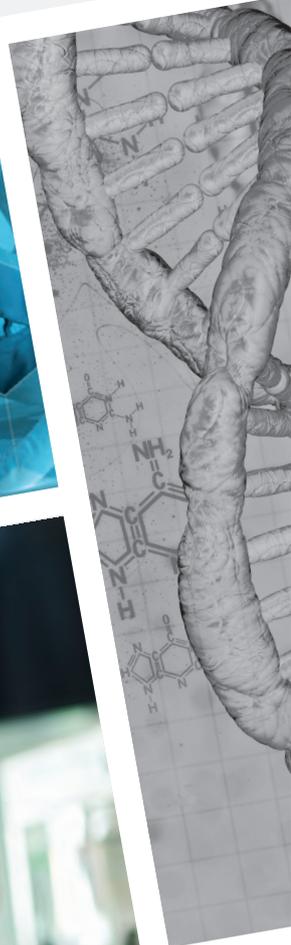


**Alpha Laboratories Limited**  
40 Parham Drive  
Eastleigh, Hampshire  
SO50 4NU United Kingdom

**Tel:** +44 23 8048 7209  
**Fax:** +44 23 8064 3701  
**Email:** [export@alphalabs.co.uk](mailto:export@alphalabs.co.uk)  
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