

## 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.

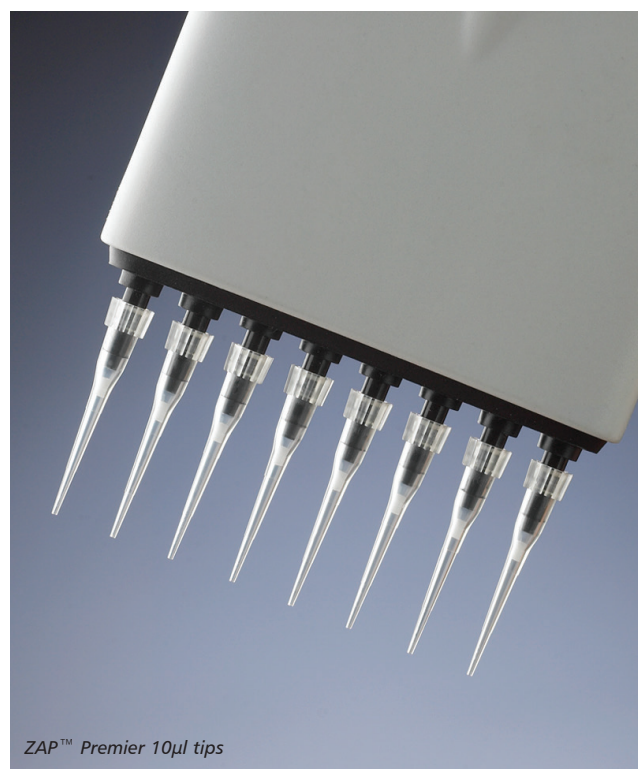
### Gel-Loading Speciality Tips

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

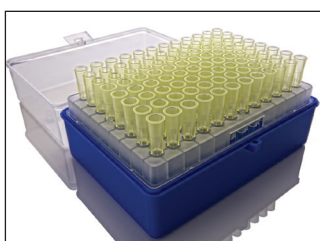
## Packaging Formats

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
	Proline® 1	
	Electronic	0.5-10
	Reference	0.1-2.5, 0.5-10
Eppendorf®	Research Pro	0.5-10
	Research	0.1-2.5, 0.5-10
	Research Plus	0.5-10
Gilson	Pipetman	P2, 10
	Pipetman Ultra	U2, 10
	Pipetman Classic,G,L	0.2-2, 1-10
Rainin®	EDP3	
	EDP1	
	Pipet Lite SL	0.1-2, 0.5-10
Loose Non-Sterile		Pack Size 1000 Price/Pack £16.20 Cat. No. LW1126
Racked Non-Sterile		Pack Size 12 x 96 Price/Pack £45.80 Cat. No. LW1136
Racked Sterile		Pack Size 12 x 96 Price/Pack £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

## Fastrak<sup>®</sup> Tip Rack Refill System – tip refills redefined

Fastrak<sup>®</sup> 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**

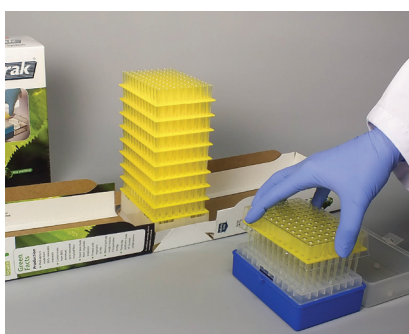
**Less packing**

**Quality tips**

How Fastrak<sup>®</sup> works



1. Open Fastrak<sup>®</sup> 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<sup>®</sup> 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<sup>®</sup> 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

## 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

