

TK Europa HPLC Column for Peptides and Proteins



Europa packaging

Europa C18 Peptide Analytical HPLC Columns



Packing	Funct.	μm	Length cm	Diameter cm	Cat.Nbr.
Europa Peptide 120	C18	5	3	0.46	TR-010116
Europa Peptide 120	C18	5	4	0.46	TR-010117
Europa Peptide 120	C18	5	5	0.46	TR-010118
Europa Peptide 120	C18	5	10	0.46	TR-010119
Europa Peptide 120	C18	5	15	0.46	TR-010120
Europa Peptide 120	C18	5	20	0.46	TR-010121
Europa Peptide 120	C18	5	25	0.46	TR-010122
Europa Peptide 120	C18	5	3	0.40	TR-010123
Europa Peptide 120	C18	5	4	0.40	TR-010124
Europa Peptide 120	C18	5	5	0.40	TR-010125
Europa Peptide 120	C18	5	10	0.40	TR-010126
Europa Peptide 120	C18	5	15	0.40	TR-010127
Europa Peptide 120	C18	5	20	0.40	TR-010128
Europa Peptide 120	C18	5	25	0.40	TR-010129

Europa C18 Peptide Microbore HPLC Columns



Columns are particularly designed for LC/MS applications. The high detection sensitivity of these columns allows the use of smaller quantities of samples and also decreases the required volume of solvents.

Packing	Funct.	μm	Length cm	Diameter cm	Cat.Nbr.
Europa Peptide 120	C18	5	3	0.21	TR-010130
Europa Peptide 120	C18	5	5	0.21	TR-010131
Europa Peptide 120	C18	5	10	0.21	TR-010132
Europa Peptide 120	C18	5	15	0.21	TR-010133
Europa Peptide 120	C18	5	20	0.21	TR-010134
Europa Peptide 120	C18	5	3	0.30	TR-010135
Europa Peptide 120	C18	5	5	0.30	TR-010136
Europa Peptide 120	C18	5	10	0.30	TR-010137
Europa Peptide 120	C18	5	15	0.30	TR-010138
Europa Peptide 120	C18	5	20	0.30	TR-010139
Europa Peptide 120	C18	5	25	0.30	TR-010140

Europa C18 Peptide Semi Preparative HPLC Columns



Packing	Funct.	μm	Length cm	Diameter cm	Cat.Nbr.
Europa Peptide 120	C18	5	10	0.78	TR-010141
Europa Peptide 120	C18	5	15	0.78	TR-010142
Europa Peptide 120	C18	5	25	0.78	TR-010143
Europa Peptide 120	C18	5	10	1.00	TR-010144
Europa Peptide 120	C18	5	15	1.00	TR-010145
Europa Peptide 120	C18	5	25	1.00	TR-010146

Europa C18 Peptide Preparative HPLC Columns



Packing	Funct.	μm	Length cm	Diameter cm	Cat.Nbr.
Europa Peptide 120	C18	5	5	2.12	TR-010147
Europa Peptide 120	C18	5	10	2.12	TR-010148
Europa Peptide 120	C18	5	15	2.12	TR-010149
Europa Peptide 120	C18	5	25	2.12	TR-010150

Europa HPLC Column for Peptides and Proteins



Europa C18 Protein HPLC Columns

We invite you to try our Europa C18 Protein column when you experience unsatisfactory results with your favorite column.

Europa C18 Protein columns are designed and manufactured for identification and purification of proteins and for compounds with high molecular weight.

Europa HPLC columns for proteins provide a high performance that is unsurpassed in efficiency, reliability and reproducibility. Manufactured using novel proprietary technologies, analytical and preparative Europa columns are simply the best reverse phase columns available today.

Europa columns ensure greater separation efficiency, resistance to extreme pH conditions and longer column life.

Our “Ultra-Fast” columns are made in 3-5 cm length in order to get quick analytical results, whereas the “High Efficiency” columns are normally in 15-25 cm lengths to obtain best resolution.

Specifications:

- Ultra high purity totally spherical silica gel provide a high resolution and excellent peak shape
- High loading capacity of crude proteins
- High density bonding for extreme performance proprietary fully end-capped silica
- Stable, featuring extended acidic and basic conditions
- Silica properties: ultra pure and totally spherical narrow distribution range and high density
- Fully end-capped silica
- Porous Size: 300Å narrow particle size distribution
- Surface Area 100 m²/gr.
- % of Carbon 7 %
- Packed with 5µm sized silica particles
- Available as C4, C8, and C18 columns
- Microbore Columns are available in: 0.21, 0.30 cm I.D. Analytical Columns in: 0.40 and 0.46cm I.D. Semi-Prep in: 0.70-1.0cm Prep Columns in: 2.1cm and larger diameter by request

Europa C18 Protein Preparative HPLC Columns



Packing	Funct.	µm	Length cm	Diameter cm	Cat.Nbr.
Europa Protein 300	C18	5	5	2.12	TR-010217
Europa Protein 300	C18	5	10	2.12	TR-010218
Europa Protein 300	C18	5	15	2.12	TR-010219
Europa Protein 300	C18	5	25	2.12	TR-010220

Europa C18 Protein Analytical HPLC Columns



Packing	Funct.	µm	Length cm	Diameter cm	Cat.Nbr.
Europa Protein 300	C18	5	3	0.46	TR-010158
Europa Protein 300	C18	5	4	0.46	TR-010159
Europa Protein 300	C18	5	5	0.46	TR-010160
Europa Protein 300	C18	5	10	0.46	TR-010161
Europa Protein 300	C18	5	15	0.46	TR-010162
Europa Protein 300	C18	5	20	0.46	TR-010163
Europa Protein 300	C18	5	25	0.46	TR-010164
Europa Protein 300	C18	5	3	0.40	TR-010172
Europa Protein 300	C18	5	4	0.40	TR-010173
Europa Protein 300	C18	5	5	0.40	TR-010174
Europa Protein 300	C18	5	10	0.40	TR-010175
Europa Protein 300	C18	5	15	0.40	TR-010176
Europa Protein 300	C18	5	20	0.40	TR-010177
Europa Protein 300	C18	5	25	0.40	TR-010178

Europa C18 Protein Microbore HPLC Columns



Columns are particularly designed for LC/MS applications. The high detection sensitivity of these columns allows the use of smaller quantities of samples and also decreases the required volume of solvents.

Packing	Funct.	µm	Length cm	Diameter cm	Cat.Nbr.
Europa Protein 300	C18	5	3	0.21	TR-010184
Europa Protein 300	C18	5	5	0.21	TR-010185
Europa Protein 300	C18	5	10	0.21	TR-010186
Europa Protein 300	C18	5	15	0.21	TR-010187
Europa Protein 300	C18	5	20	0.21	TR-010188
Europa Protein 300	C18	5	3	0.30	TR-010195
Europa Protein 300	C18	5	5	0.30	TR-010196
Europa Protein 300	C18	5	10	0.30	TR-010197
Europa Protein 300	C18	5	15	0.30	TR-010198
Europa Protein 300	C18	5	20	0.30	TR-010199
Europa Protein 300	C18	5	25	0.30	TR-010200

Europa C18 Protein Semi-Preparative HPLC Columns



Packing	Funct.	µm	Length cm	Diameter cm	Cat.Nbr.
Europa Protein 300	C18	5	10	0.70	TR-010211
Europa Protein 300	C18	5	5	0.70	TR-010212
Europa Protein 300	C18	5	25	0.70	TR-010213
Europa Protein 300	C18	5	10	1.00	TR-010214
Europa Protein 300	C18	5	15	1.00	TR-010215
Europa Protein 300	C18	5	25	1.00	TR-010216



TK Europa HPLC Column for Peptides and Proteins



Semi preparative and Preparative Europa HPLC Columns

Europa C8 Protein HPLC Columns

Europa C8 columns are recommended for compounds too strongly retained on C18 Phases.

Europa C8 Protein Analytical HPLC Columns



Packing	Funct.	Length	Diameter		
		µm	cm	cm	Cat.Nbr.
Europa Protein 300	C8	5	3	0.46	TR-010151
Europa Protein 300	C8	5	4	0.46	TR-010152
Europa Protein 300	C8	5	5	0.46	TR-010153
Europa Protein 300	C8	5	10	0.46	TR-010154
Europa Protein 300	C8	5	15	0.46	TR-010155
Europa Protein 300	C8	5	20	0.46	TR-010156
Europa Protein 300	C8	5	25	0.46	TR-010157
Europa Protein 300	C8	5	3	0.40	TR-010165
Europa Protein 300	C8	5	4	0.40	TR-010166
Europa Protein 300	C8	5	5	0.40	TR-010167
Europa Protein 300	C8	5	10	0.40	TR-010168
Europa Protein 300	C8	5	15	0.40	TR-010169
Europa Protein 300	C8	5	20	0.40	TR-010170
Europa Protein 300	C8	5	25	0.40	TR-010171

Europa C8 Protein Microbore HPLC Columns



Columns are particularly designed for LC/MS applications. The high detection sensitivity of these columns allows the use of smaller quantities of samples and also decreases the required volume of solvents.

Europa C8 columns are recommended for compounds too strongly retained on C18 Phases.

Packing	Funct.	Length	Diameter		
		µm	cm	cm	Cat.Nbr.
Europa Protein 300	C8	5	3	0.21	TR-010179
Europa Protein 300	C8	5	5	0.21	TR-010180
Europa Protein 300	C8	5	10	0.21	TR-010181
Europa Protein 300	C8	5	15	0.21	TR-010182
Europa Protein 300	C8	5	20	0.21	TR-010183
Europa Protein 300	C8	5	3	0.30	TR-010189

Europa C8 Protein Semi-Preparative HPLC Columns



Packing	Funct.	Length	Diameter		
		µm	cm	cm	Cat.Nbr.
Europa Protein 300	C8	5	10	0.70	TR-010201
Europa Protein 300	C8	5	15	0.70	TR-010202
Europa Protein 300	C8	5	25	0.70	TR-010203
Europa Protein 300	C8	5	10	1.00	TR-010204
Europa Protein 300	C8	5	15	1.00	TR-010205
Europa Protein 300	C8	5	25	1.0	TR-010206

Europa C8 Protein Preparative HPLC Columns



Packing	Funct.	Length	Diameter		
		µm	cm	cm	Cat.Nbr.
Europa Protein 300	C8	5	5	2.12	TR-010207
Europa Protein 300	C8	5	10	2.12	TR-010208
Europa Protein 300	C8	5	15	2.12	TR-010209
Europa Protein 300	C8	5	25	2.12	TR-010210

For Guard Columns please refer to pages 209-211

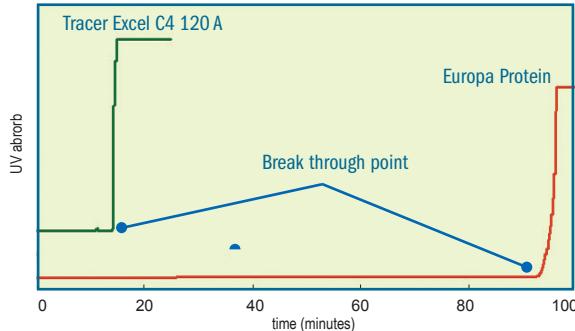
Europa HPLC Column for Peptides and Proteins



Europa C4 Protein HPLC Columns

Europa Protein C4 300 A - Loading Capacity of BSA

Protein 300 exhibited the highest loading capacity for proteins



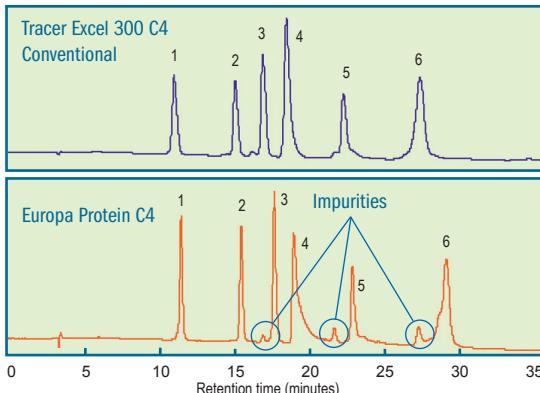
Column: 7 mm I.D. x 250 mm Length; Temperature: 35°C; Detector: UV 220 nm;
Flow Rate: 1.0 ml/min.

Feed: 10 mg/mL BSA in 0.1% TFAaq
Europa C4 columns are recommended for compounds too strongly retained on C 18 and C 8

Europa Protein C4 300 A - Protein Separation Behaviors

- Similar Hydrophobic Selectivity
- Higher Resolution

Protein Standards	
1.	Ribonuclease A (M.W. 13,700)
2.	Cytochrome C (M.W. 12,400)
3.	Lysozyme (M.W. 14,300)
4.	BSA (M.W. 67,000)
5.	Myoglobin (M.W. 18,800)
6.	Ovalbumin (M.W. 45,300)



Column: 6 mm I.D. x 250 mm Length; Temperature: 35°C; Detector: UV 220 nm;
Mobile Phase: A) CH3CN/H2O/TFA = 20/80/0.1, B) CH3CN/H2O/TFA = 60/40/0.1,
Linear Gradient from A to B in 25 min and hold for 10 min; Flow Rate: 1.7 ml/min.

Europa C4 Protein Analytical HPLC Columns

Packing	Funct.	μm	Length cm	Diameter cm	Cat.Nbr.
Europa Protein 300	C4	5	3	0.46	TR-010081
Europa Protein 300	C4	5	4	0.46	TR-010082
Europa Protein 300	C4	5	5	0.46	TR-010083
Europa Protein 300	C4	5	10	0.46	TR-010084
Europa Protein 300	C4	5	15	0.46	TR-010085
Europa Protein 300	C4	5	20	0.46	TR-010086
Europa Protein 300	C4	5	25	0.46	TR-010087

Packing	Funct.	μm	Length cm	Diameter cm	Cat.Nbr.
Europa Protein 300	C4	5	3	0.40	TR-010088
Europa Protein 300	C4	5	4	0.40	TR-010089
Europa Protein 300	C4	5	5	0.40	TR-010090
Europa Protein 300	C4	5	10	0.40	TR-010091
Europa Protein 300	C4	5	15	0.40	TR-010092
Europa Protein 300	C4	5	20	0.40	TR-010093
Europa Protein 300	C4	5	25	0.40	TR-010094

Europa C4 Protein Microbore HPLC Columns



Columns are particularly designed for LC/MS applications.
The high detection sensitivity of these columns allows the use of smaller quantities of samples and also decreases the required volume of solvents.

Packing	Funct.	μm	Length cm	Diameter cm	Cat.Nbr.
Europa Protein 300	C4	5	3	0.21	TR-010095
Europa Protein 300	C4	5	5	0.21	TR-010096
Europa Protein 300	C4	5	10	0.21	TR-010097
Europa Protein 300	C4	5	15	0.21	TR-010098
Europa Protein 300	C4	5	20	0.21	TR-010099
Europa Protein 300	C4	5	3	0.30	TR-010100
Europa Protein 300	C4	5	5	0.30	TR-010101
Europa Protein 300	C4	5	10	0.30	TR-010102
Europa Protein 300	C4	5	15	0.30	TR-010103
Europa Protein 300	C4	5	20	0.30	TR-010104
Europa Protein 300	C4	5	25	0.30	TR-010105

Europa C4 Protein Semi-Preparative HPLC Columns



Packing	Funct.	μm	Length cm	Diameter cm	Cat.Nbr.
Europa Protein 300	C4	5	10	0.78	TR-010106
Europa Protein 300	C4	5	15	0.78	TR-010107
Europa Protein 300	C4	5	25	0.78	TR-010108
Europa Protein 300	C4	5	10	1.00	TR-010109
Europa Protein 300	C4	5	15	1.00	TR-010110
Europa Protein 300	C4	5	25	1.00	TR-010111

Europa C4 Protein Preparative HPLC Columns



Packing	Funct.	μm	Length cm	Diameter cm	Cat.Nbr.
Europa Protein 300	C4	5	5	2.12	TR-010112
Europa Protein 300	C4	5	10	2.12	TR-010113
Europa Protein 300	C4	5	15	2.12	TR-010114
Europa Protein 300	C4	5	25	2.12	TR-010115