

Колонны ВЭЖХ Europa

Технические характеристики

По вопросам продаж и поддержки обращайтесь:

Алматы (7273)495-231
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Владикавказ (8672)28-90-48
Владимир (4922)49-43-18
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89

Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Коломна (4966)23-41-49
Кострома (4942)77-07-48
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Курган (3522)50-90-47
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Ноябрьск (3496)41-32-12
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Петрозаводск (8142)55-98-37
Псков (8112)59-10-37
Пермь (342)205-81-47

Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Саранск (8342)22-96-24
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Сыктывкар (8212)25-95-17
Тамбов (4752)50-40-97
Тверь (4822)63-31-35

Тольятти (8482)63-91-07
Томск (3822)98-41-53
Тула (4872)33-79-87
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Улан-Удэ (3012)59-97-51
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Чебоксары (8352)28-53-07
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Чита (3022)38-34-83
Якутск (4112)23-90-97
Ярославль (4852)69-52-93

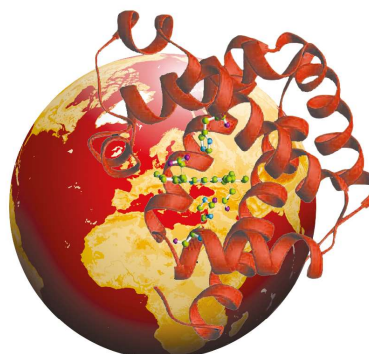
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by Teknokroma
Europa[®]



Introduction

Teknokroma introduces in the market the new line of **Europa HPLC columns**.

After the versatility of our popular **mediterranea**[™] column that enables you to deal successfully with the immense variety of separations in the fields of pharmaceuticals, life sciences, environment, foods, etc. Teknokroma has focused all its efforts and all its know-how, accumulated through more than 40 years of chromatographic research and development, in offering the best reverse phase HPLC packing for identification and purification of peptides and protein compounds.

Manufactured using novel proprietary technologies, analytical and preparative Europa columns are simply the best reverse phase columns available today.

As a result of these, we launch into the market the Line of Europa HPLC columns, one of the best columns in the field of analysis of biomolecules.

The Europa HPLC columns for peptides and proteins, provide the best performance and unsurpassed efficiency, reliability and reproducibility.

There is still a consensus that the best material to use as chromatographic packing continues to be silica. The particles of silica material are physically resistant, enable multiple functions, present maximum levels of efficiency and are also compatible with practically all solvents.

Teknokroma has dedicated years of research and development in obtaining the best silica particle on the market. The silica particle on which the Europa columns is based is the result of an optimisation process, starting with extremely pure materials with unusually low metal content, and obtaining a perfectly spherical, rigid and inert particle.

Furthermore, the proprietary “porification process” (Surface Enhanced Accessibility, SEA) for Europa silica has achieved high surface area without sacrificing important properties like physical resistance and high loading capacity- making it ideal for preparative-scale processing.

In addition, the Surface Enhanced Accessibility manufacturing process creates a porous structure that ensures maximum transfer speeds for solutes between the stationary and mobile phases- resulting in higher separation efficiency.

Our “Ultra-Fast” Europa 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.

The Teknokroma Europa Columns are uniquely designed with optimized pore size distribution; 120Å for Peptide and 300Å for the Protein Columns.

Europa columns are available for:

Peptides: Europa C18 with 0.21, 0.30, 0.40, 0.46, 0.78, 1.0 and 2.12 cm.

Proteins: Europa C18, C8 and C4 with 0.21, 0.30, 0.40, 0.46, 0.78, and 2.12 cm.

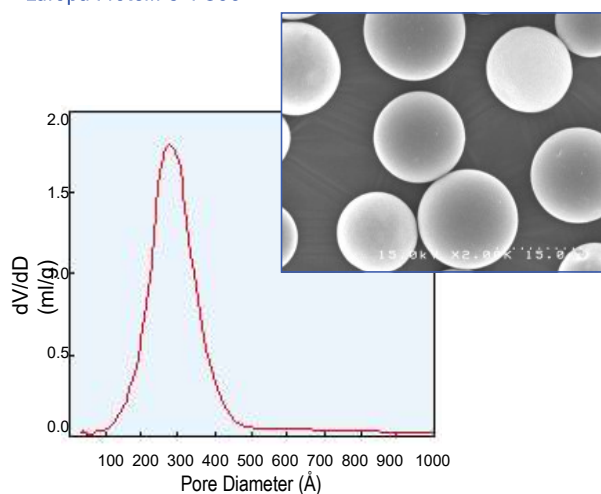
Purity of silica

The responsibility for chromatographic separation of peptides and proteins is found inside the particle-within the pores. To obtain a very homogeneous pore distribution the least possible number of nanopores is essential.

For most reverse-phase silica packings, these nanopores are not properly chemically bonded, endcapped or deactivated. So when nanopores are accessible to the peptides and proteins, surface-peptide and protein interactions frequently dominate. These interactions often result in a decrease of column efficiency.

Europa Protein C4 Pore Distribution

Europa Protein C 4 300



Deactivation Process

Thanks to our proprietary new Multifunctional Endcapping Deactivation (MED) technology used with our popular HPLC columns *Mediterranea™* Sea 18, we obtain with the Europa packing a specially designed C4, C8 and C18 ligand configuration, that blocks practically all the active centres that may have remained on the surface of the silica.

As a result of this, Europa columns have an unusual low level of silanol activity, helping you to obtain symmetrical peaks for the most basic and acidic compounds. The improved high density bonding and full endcapping make them suitable to separate or purify low molecular weight compounds (especially small peptides when using Europa Peptide column 120 Å) and separate or purify high molecular weight compounds, especially proteins when using Europa Protein column 300 Å.

Europa C 18 bonding chemistries will help you to achieve an extraordinary resistance and column lifetime when running at extreme pH levels.

Wide pH Range

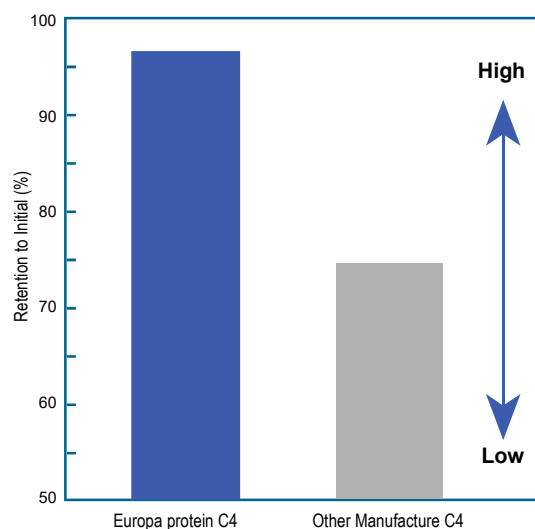
Using Europa C 18 packing materials it is possible to work with eluents from pH 1 to pH 12. Such unusual pH resistance values have been achieved as a result of phase bonding efficiency and a proprietary endcapping process which provides a protective shield against acidic and basic eluents.

Europa columns ensure greater separation efficiency, resistance to extreme pH conditions and can be used for an extended period of time.

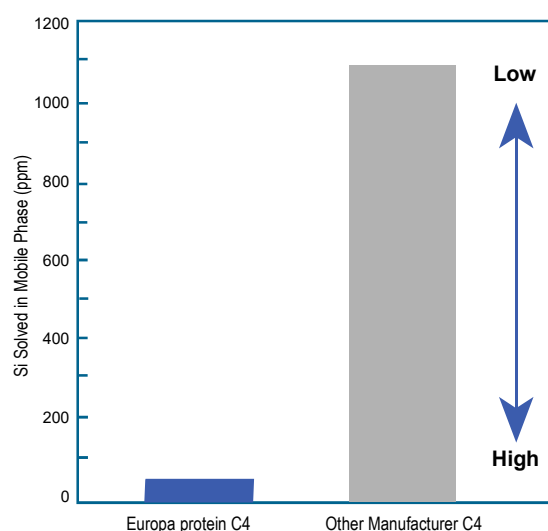
Europa Protein C4 Phase Stability

Phase stability of Europa Protein C4 columns has been checked purging one 25 x 0.78 cm column either with CH₃CN/1%TFA 10:90 (pH=1) during 15 hours at 0.9 ml/min or with CH₃CN/20 mM Na₃PO₄ 10:90 (pH=12) during 3 hours at 1.7 ml/min.

Acid Resistance pH=1



Alkali Resistance pH=12

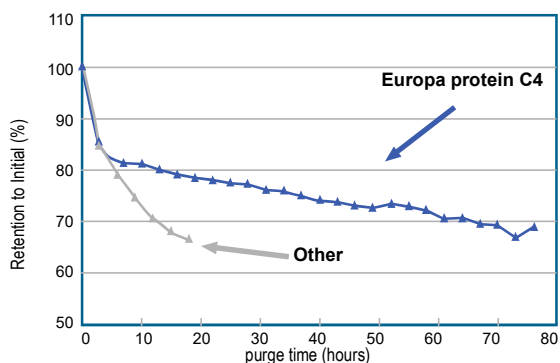




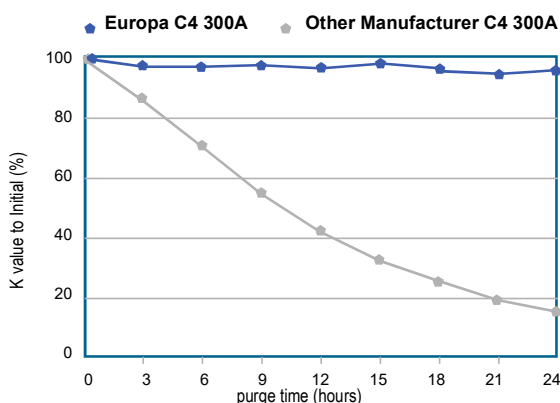
Durability comparison in Alkaline Medium/RT

The graphic below shows the durability of the column after more than 80 hours of purge time passing through one Europa Protein C4 column a flow rate of 1.0 ml of alkaline solution at pH 12, CH3CN/0.01NaOH 10/90 .

There is represented in the graphic the retention time of naphthalene after every three hours of purge, using CH3CN / H2O 35:65 at 1.7 ml/min and 40°C (UV detection at 254 nm). It is seen that after 80 hours, Europa columns still perform very well.

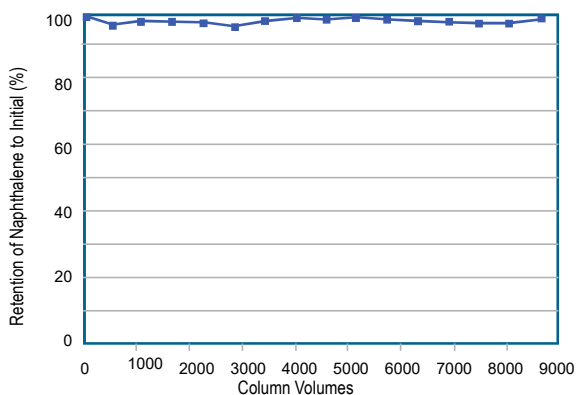


Durability comparison in Acidic Medium / K value



Durability of Europa C4 has also been compare against other manufacturers using a 15 x 0.46 cm column and CH3CN / 1.0% TFA in water 10:90 (pH=1) at 70°C, and checking K values for naphthalene every 3 hours.

Durability under Acidic Contition



Retention time for naphthalene using the same chromatographic conditions has also been controlled after up to 9000 column volumes of CH3CN / 0.05% TFA in water (pH=2) at a flow rate of 1.0 ml/min at room temperature. Column size was 15 x 0.46 cm

Europa C18 Peptide HPLC columns

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

Europa C18 Peptide columns are suitable to separate or purify low molecular weight compounds, especially small peptides.

Europa HPLC columns for peptides 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.

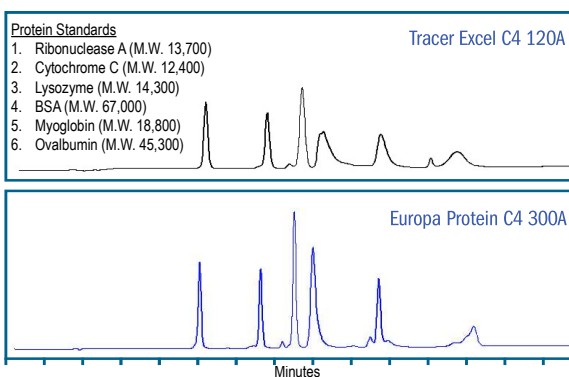
Our "Ultra-Fast" columns are made in 3-5 cm length in order to get quick analytical results, whereas the "High Efficiency" columns are normally in 15-25cm lengths to obtain the best resolution.

Specifications:

- Ultra high purity, totally spherical silica gel
- High density bonding for extreme performance proprietary fully end-capped silica
- Porous Size: 120 Å, narrow particle size distribution
- Surface Area 300 m²/g
- % of Carbon 19 %
- High loading capacity of crude peptides
- Stable under basic and extreme acidic conditions
- Packed with 5µm sized silica particles

Microbore Columns are available in: 0.21, 0.30 cm ID
Analytical Columns are available in: 0.40 and 0.46 cm ID
Semi-Prep Columns are available in: 0.78 and 1.0 cm
Prep Columns are available in: 2.1 cm ID
Larger diameter available by request

Influence of Pore size in Peak Shape



Column: 7.8 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 packaging

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		Diameter	Cat.Nbr.
			cm	cm		
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 Analytical HPLC Columns



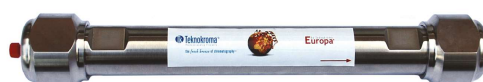
Packing	Funct.	µm	Length		Diameter	Cat.Nbr.
			cm	cm		
Europa Peptide 120	C18	5	3	0.46		TR-010116
Europa Peptide 120	C18	5	4	0.46		TR-010117
Europa Peptide 120	C18	5	5	0.46		TR-010118
Europa Peptide 120	C18	5	10	0.46		TR-010119
Europa Peptide 120	C18	5	15	0.46		TR-010120
Europa Peptide 120	C18	5	20	0.46		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 Semi Preparative HPLC Columns



Packing	Funct.	µm	Length		Diameter	Cat.Nbr.
			cm	cm		
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		Diameter	Cat.Nbr.
			cm	cm		
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 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		Cat.Nbr.	
		µm	cm		
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		Diameter	Cat.Nbr.
		µm	cm		
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		Diameter	Cat.Nbr.
		µm	cm		
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		Diameter	Cat.Nbr.
		µm	cm		
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



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. μm	Length		Diameter	Cat.Nbr.
		cm	cm	cm	
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. μm	Length		Diameter	Cat.Nbr.
		cm	cm	cm	
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



Semi preparative and Preparative Europa HPLC Columns

Packing	Funct. μm	Length		Diameter	Cat.Nbr.
		cm	cm	cm	
Europa Protein 300	C8	5	5	0.30	TR-010190
Europa Protein 300	C8	5	10	0.30	TR-010191
Europa Protein 300	C8	5	15	0.30	TR-010192
Europa Protein 300	C8	5	20	0.30	TR-010193
Europa Protein 300	C8	5	25	0.30	TR-010194

Europa C8 Protein Semi-Preparative HPLC Columns



Packing	Funct. μm	Length		Diameter	Cat.Nbr.
		cm	cm	cm	
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



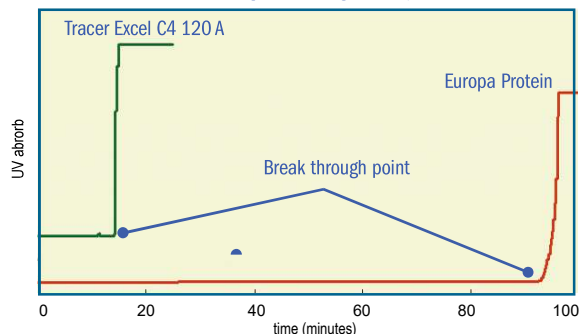
Packing	Funct. μm	Length		Diameter	Cat.Nbr.
		cm	cm	cm	
Europa Protein 300	C8	5	5	2.12	TR-010207
Europa Protein 300	C8	5	10	2.12	TR-010208
Europa Protein 300	C8	5	15	2.12	TR-010209
Europa Protein 300	C8	5	25	2.12	TR-010210

For Guard Columns please refer to pages 193-196

Europa C4 Protein HPLC Columns

Europa Protein C4 300 Å - Loading Capacity of BSA

Protein 300 exhibited the highest loading capacity for proteins

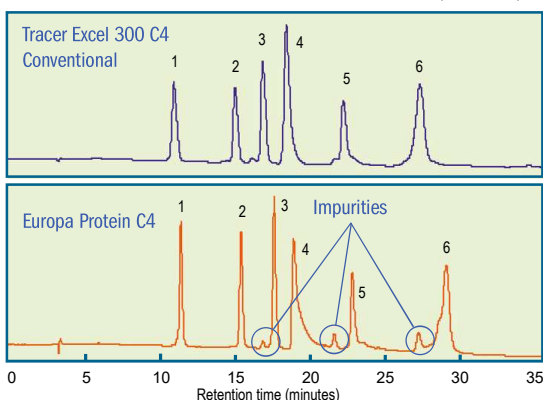


Column: 7 mm I.D. x 250 mm Length; Temperature: 35°C; Detector: UV 220 nm;
Flow Rate: 1.0 ml/min.

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 Å - 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		Diameter	Cat.Nbr.
		µm	cm		
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		Diameter	Cat.Nbr.
		µm	cm		
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		Diameter	Cat.Nbr.
		µm	cm		
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		Diameter	Cat.Nbr.
		µm	cm		
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		Diameter	Cat.Nbr.
		µm	cm		
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

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