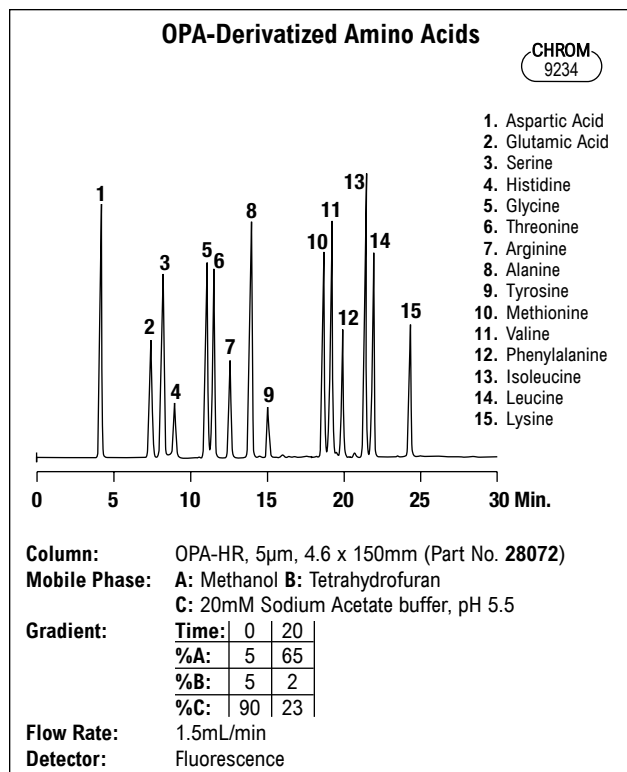


Alltech® OPA Amino Acid Columns

- OPA-HS for high-speed with protein hydrolysates
- OPA-HR for high-resolution with physiological samples

OPA-HS (high-speed) columns are ideal for the study of protein acid hydrolysates with very simple mobile-phase systems.

OPA-HR (high-resolution) columns are ideal for applications that require more resolution than simple hydrolysates. OPA-HR gives baseline separation of most amino acids found in physiological fluids.



OPA Amino Acid HPLC Columns

Packing	Format	i.d. x Length	Part No.
OPA-HS, 5 μ m	Analytical	4.6 x 100mm	28064
OPA-HR, 5 μ m	Analytical	4.6 x 150mm	28072

Derivatization Reagents

Description	Qty.	Part No.
OPA Crystals	5g	35606

more info

For related products, see our Vydac® line of Life Science columns on pages 85–95.

Alltech® Nucleotide-Nucleoside Columns

- Determine both nucleotides and nucleosides with a single column

With this column, separate seven common nucleosides or twelve common nucleotides using a buffer/methanol/tetrabutyl ammonium phosphate gradient.

Nucleotide-Nucleoside HPLC Columns

Packing	Format	i.d. x Length	Part No.
Nucleotide-Nucleoside, 7 μ m	Analytical	4.6 x 250mm	35623

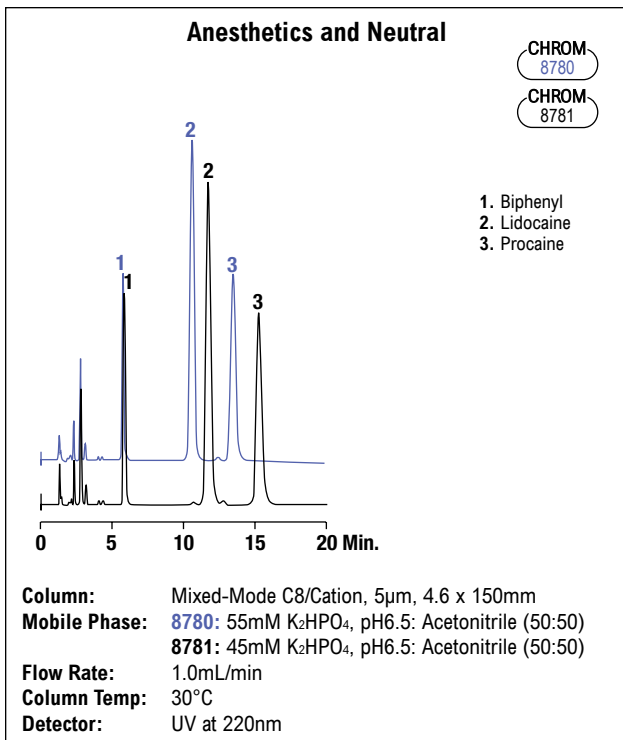
All-Guard™ Cartridges*

Packing	i.d. x Length	Qty.	Part No.
Nucleotide-Nucleoside, 7 μ m	4.6 x 7.5mm	3	96077
All-Guard™ Cartridge Holder (Includes Direct-Connect Column Coupler)		ea	80101

*All-Guard™ holder required.

Alltech® Mixed-Mode Columns

- Separate hydrophobic and ionic species on a single column
- Control ionization with buffer adjustments instead of ion-pair reagents



Changing the buffer concentration affects the capacity of the cationic components lidocaine and procaine, but does not affect the capacity of biphenyl, a neutral component.

Mixed-Mode HPLC Columns

Packing	Format	i.d. x Length	Part No.
C8/Anion, 7µm	Analytical	4.6 x 150mm	71354
	Analytical	4.6 x 250mm	12369
C8/Cation, 5µm	Analytical	4.6 x 150mm	72568
	Analytical	4.6 x 250mm	71364
C18/Cation, 5µm	Analytical	4.6 x 150mm	72574
	Analytical	4.6 x 250mm	71369

Mixed-Mode All-Guard™ Cartridges*

Packing, 5µm	i.d. x Length	Qty.	Part No.
C8/Anion	4.6 x 7.5mm	3	96147
C8/Cation	4.6 x 7.5mm	3	71379
C18/Cation	4.6 x 7.5mm	3	71380
All-Guard™ Cartridge Holder (Includes Direct-Connect Column Coupler)		ea	80101

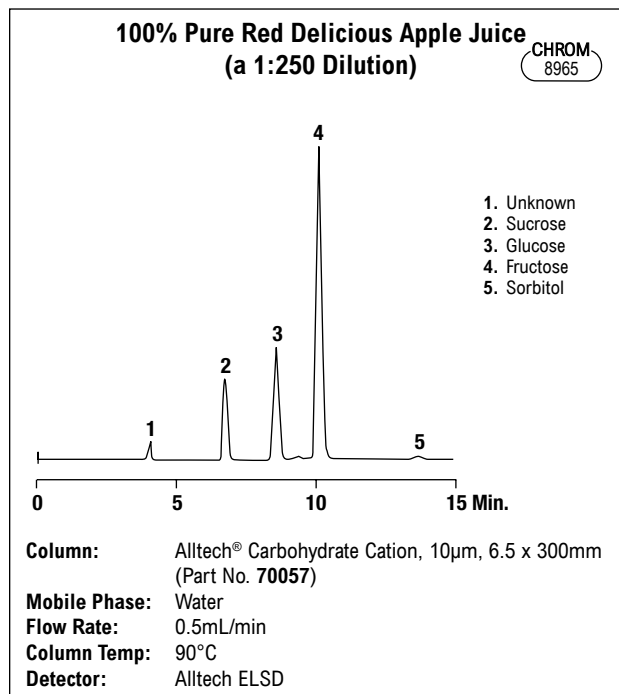
*All-Guard™ holder required. Other particle sizes available.

Alltech® Carbohydrate Cation Columns

- High efficiency separations using only water as the mobile phase
- Sulfonated polystyrene resin in the calcium form
- Column heating required



7110



Carbohydrate Cation HPLC Columns

Packing	Format	i.d. x Length	Part No.
Carbohydrate Cation, 10µm	Analytical	6.5 x 300mm	70057

more info

For Alltech® Prevail™ Carbohydrate ES columns, see page 47.

related product

Need a column heater?
See pages 16 and 17.



6219

related product

Doing carbohydrate analysis?
Alltech® 3300 ELSD is more sensitive than RI. See pages 5–10.



6947B

Alltech® MacroSphere™ GPC Columns

- 7µm GPC phases separate proteins, peptides, and polar synthetic compounds by size-exclusion

MacroSphere™ GPC Exclusion Limits in Daltons		
Pore Size	Included	Excluded
60Å	250	28,000
100Å	2500	350,000
150Å	4000	500,000
300Å	7500	1,200,000

MacroSphere™ GPC Columns

Packing	Format	i.d. x Length	Standard Part No.	Waters® Fittings Part No.
GPC 60Å	Analytical	4.6 x 250mm	88129	—
GPC 100Å	Analytical	4.6 x 250mm	88133	88134
GPC 150Å	Analytical	4.6 x 250mm	88137	—
GPC 300Å	Analytical	4.6 x 250mm	—	88142

MacroSphere™ GPC All-Guard™ Cartridges*

Packing, 5µm	i.d. x Length	Qty.	Part No.
GPC	4.6 x 7.5mm	3	96133
All-Guard™ Cartridge Holder		ea	80101

(Includes Direct-Connect™ Column Coupler)

*All-Guard™ holder required. Other particle sizes available.

Alltech® MacroSphere™ Ion-Exchange Columns

- 300Å weak and strong ion-exchange phases separate proteins, enzymes, and other biologicals

MacroSphere™ Ion-Exchange Specifications		
	Exchange Group	Exchange Capacity
WAX	Diethylaminoethane	0.13 meq/gram
SCX	Sulfonic Acid	0.50 meq/gram

MacroSphere™ Ion-Exchange Columns

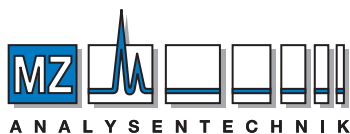
Packing	Format	i.d. x Length	Part No.
WAX, 7µm	Analytical	4.6 x 150mm	71151
	Analytical	4.6 x 250mm	71154
SCX, 7µm	Analytical	4.6 x 150mm	72308
	Analytical	4.6 x 250mm	72608

MacroSphere™ Ion-Exchange All-Guard™ Cartridges*

Packing	i.d. x Length	Qty.	Part No.
WAX, 5µm	4.6 x 7.5mm	3	96135
SCX, 5µm	4.6 x 7.5mm	3	96141
All-Guard™ Cartridge Holder		ea	80101

(Includes Direct-Connect™ Column Coupler)

*All-Guard™ holder required. Other particle sizes available.



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