

Avantor® Alltima HP

for superior retention and loadability

Avantor® Alltima HP columns offer a range of different phase chemistries based on high purity silica. The Avantor® Alltima HP product family combines the selectivity and performance needed to overcome the most challenging separation needs. The low column bleed makes these columns ideal for microbore applications.

Key Features

- High purity silica
- Excellent column stability
- Low to no detectable column bleed
- pH stability from 1 to 10
- Multiple selectivity options

AVANTOR® ALLTIMA HP PHASE SPECIFICATIONS

Phase	Particle size (µm)	Endcapped	Properties	Applications	USP Code
C18	3, 5	Yes	Classic reversed-phase retention and selectivity	Routine applications	L1
C18-EPS	3, 5	Yes	Greater retention and enhanced peak symmetry for polar compounds. Alternative selectivity to traditional reversed-phase	Reversed-phase applications where C18 is too retentive	L1
C18-HiLoad	3, 5	Yes	Highest carbon load for superior retention and loadability	High resolution for complex samples	L1
C18-AQ	3, 5	Yes	100% water wettable	Applications requiring high aqueous mobile phases	L1
C18-Amide	3, 5	Yes	Polar-embedded phase with extremely low bleed. Compatible with microbore	Basic compounds in neutral to alkaline pH, MS applications	L1
C8	3, 5	Yes	Lower retention compared to C18 phases	Reversed-phase applications where C18 is too retentive	L7
Cyano	3, 5	Yes	Extremely stable, long life and reproducible	Ideal for basic drug analysis	L10
Silica	3, 5	No	Highly polar phase	General purpose normal phase applications	L3
HILIC	3, 5	–	Hydrophilic Interaction Chromatography uses small amounts of water for increased sensitivity with microbore applications	Very polar analytes that are difficult to retain by reversed-phase	L3

ORDERING INFORMATION

CAPILLARY COLUMNS - 3 µm

Length (mm)	50	100	150
i.d. (mm)	0.3	0.3	0.3
C18	22156	22157	22158
C18-HiLoad	22193	22194	22195
C18-AQ	22563	22564	22565
C18-Amide	22258	22259	22260
C8	22482	22483	22484
HILIC	22518	22519	22520

CAPILLARY COLUMNS - 5 µm

Length (mm)	50	100	150	250
i.d. (mm)	0.3	0.3	0.3	0.3
C18	22128	22129	22130	22131
C18-HiLoad	22173	22174	22175	22176
C18-AQ	22535	22536	22537	22538
C18-Amide	22240	22241	22242	22243
C8	22464	22465	22466	22467
HILIC	22500	22501	22502	22503

ANALYTICAL COLUMNS - 3 µm

Length (mm)	20		50	
i.d. (mm)	2.1	4.6	2.1	4.6
C18	87674	87676	87504	87826
C18-EPS	87710	–	87508	87833
C18-HiLoad	87692	87694	87506	87827
C18-AQ	–	87816	–	87832
C18-Amide	87728	–	87510	87829
C8	87746	–	87512	–
Cyano	–	–	87514	87825
Silica	–	–	–	87831
HILIC	–	–	86461	–

Length (mm)	100				150			
i.d. (mm)	1.0	2.1	3.0	4.6	1.0	2.1	3.0	4.6
C18	22163	87669	87629	87667	22164	87670	87601	87668
C18-EPS	–	87705	–	87703	–	87706	87604	87704
C18-HiLoad	22230	87687	–	87685	22231	87688	87610	87686
C18-AQ	22570	87809	–	87807	22571	87810	–	87808
C18-Amide	22265	87723	–	87721	22266	87724	87607	87722
C8	22490	87741	–	87739	22491	87742	87613	87740
Cyano	–	–	–	–	–	87760	87616	87758
Silica	–	–	–	–	–	87788	87619	87786
HILIC	22525	–	–	–	22526	86463	–	86462



For additional dimensions please contact
chromsupport@avantorsciences.com

ANALYTICAL COLUMNS - 5 µm

Length (mm)	50	100		150				250				Guard cartridges (3/pk) ¹	
i.d. (mm)	4.6	1.0	2.1	1.0	2.1	3.0	4.6	1.0	2.1	3.0	4.6	For 2.1	For 3.0-4.6
C18	87643	22137	87665	22138	87681	87602	87679	22139	87682	87603	87680	87683/N	87684/N
C18-EPS	–	–	–	–	87717	–	87715	–	87718	87606	87716	87719/N	87623/N
C18-HiLoad	–	22183	–	22184	87699	87611	87697	22185	87700	87612	87698	87701/N	87624/N
C18-AQ	–	22544	–	22545	87821	–	87819	22546	87822	–	87820	87823/N	87824/N
C18-Amide	–	22249	–	22250	87735	87608	87733	22251	87736	87609	87734	87737/N	87625/N
C8	–	22473	–	22474	87753	87614	87751	22475	–	87615	87752	87755/N	87756/N
Cyano	–	–	–	–	87781	–	87769	–	–	87618	87780 ²	87783/N	87784/N
Silica	–	–	–	–	87799	87620	87797	–	87802	87621	87798	87803/N	87804/N
HILIC	–	22509	–	22510	86465	–	86464	22511	–	–	86466	86479/N	86480/N

¹ To be used with All-Guard cartridge holder (80101/N) and column coupler for All-Guard cartridges (HI-081).

² Also available with reversed-phase shipping solvent (87780R).

Rocket columns are specifically designed for high-throughput and high-speed methods.

ROCKET COLUMNS - 3 µm

Length (mm)	33	53
i.d. (mm)	7	7
C18	87671	87672
C18-EPS	–	87708
C18-HiLoad	–	87690
C18-AQ	87811	87812
C8	–	87744
Cyano	87761	87762
Silica	87789	87790
HILIC	86469	86470

For additional support, please contact:
chromsupport@avantorsciences.com

CONDITIONS

Column: Avantor® Alltima HP C18-EPS, 5 µm, 150 x 4.6 mm (p/n: 87715)

Mobile: A: 0.03 M Potassium Phosphate, pH 3.2

phase: B: Acetonitrile

Gradient:

Time / min	0	2	20
% A	95	95	70
% B	5	5	30

Flow rate: 1.0 ml/min

Detector: UV at 260 nm

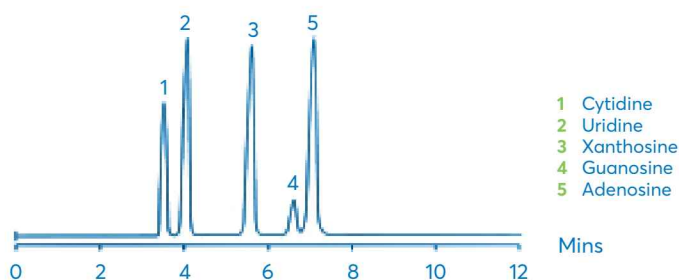


FIGURE 3: Nucleosides.