

Vydac

for biomolecules and polypeptide separation

Vydac 300 Å columns are a commonly employed range in bioseparations. Vydac columns are fully scalable from capillary to microbore and analytical to preparative dimensions. Separate biomolecules from small peptides to large intact proteins with the Vydac family of reversed-phase columns (including Vydac TP, MS, Denali, and Everest) and ion exchange (Vydac 302IC) columns. Reversed-phase columns for a polypeptide separation should be considered on the basis of the polypeptide's hydrophobicity, with molecular weight as a secondary consideration.



VYDAC HPLC COLUMN SPECIFICATIONS

Phase	USP listing	Functional group	Endcapped	Particle Size (µm)	Surface Area (m ² /g)	Pore size (Å)	Carbon load (%)	Bonding type	pH
Vydac TP									
218TP	L1	Octadecyl	Yes	3, 5, 10, 10-15, 15-20, 20-30	60 - 110	300	8	Polymeric	2 - 7
238TP	L1	Octadecyl	No	5	60 - 110	300	4	Monomeric	2 - 7
201TP	L1	Octadecyl	No	5, 10	70 - 90	300	8	Polymeric	2 - 7
202TP	L1	Octadecyl	No	5	60 - 90	300	9	Polymeric	2 - 7
208TP	L7	Octyl	Yes	3, 5, 10, 10-15, 15-20	60 - 110	300	5	Polymeric	2 - 7
214TP	L26	Butyl	Yes	3, 5, 10, 10-15, 15-20	60 - 110	300	3	Polymeric	2 - 7
214ATP	L26	Butyl	Yes	5	60 - 110	300	3	Polymeric	2 - 7
219TP	L11	Diphenyl	Yes	5, 10	60 - 110	300	4	Polymeric	2 - 7
Vydac MS									
218MS	L1	Octadecyl	Yes	5, 10	200	190	12	Monomeric	2 - 7
238MS	L1	Octadecyl	Yes	5	200	190	4	Monomeric	2 - 7
208MS	L1	Octadecyl	Yes	5, 10	450	100	24	Monomeric	2 - 7
214MS	L1	Octadecyl	Yes	5, 10, 10-15	450	100	20	Monomeric	2 - 7
Vydac Denali									
238DE	L1	Octadecyl	Yes	5, 10	70 - 110	120	6	Monomeric	2 - 7
Vydac Everest									
238EV	L1	Octadecyl	Yes	5	70 - 110	300	6	Monomeric	2 - 7
Vydac IC									
302IC	-	Quaternary amine	-	10	-	> 100	-	-	2 - 6.5

Please contact chromsupport@avantorsciences.com for advice on column selection for EP (European Pharmacopoeia) and JP (Japanese Pharmacopoeia) guidelines, or by application.

Vydac Denali

for small molecule analyses

Vydac Denali (238DE) is a 120 Å C18 bonded phase with high carbon coverage, suitable for the analysis of both acidic and basic analytes. It has applications for small molecule analyses of interest to pharmaceutical and environmental laboratories.

Key Features

- High retentiveness
- LC/MS of small molecules
- Fully scalable from capillary to process

ORDERING INFORMATION

CAPILLARY COLUMNS - 5 µm

Length (mm)	50		
i.d. (mm)	0.075	0.3	0.5
C18	238DE5.07505	238DE5.305	238DE5.505

Length (mm)	100	150		250
i.d. (mm)	0.075	0.075	0.5	0.3
C18	238DE5.07510	238DE5.07515	238DE5.515	238DE5.325

ANALYTICAL COLUMNS - 5 µm

Length (mm)	50				100			
i.d. (mm)	1.0	2.1	3.0	4.6	1.0	2.1	3.0	4.6
C18	238DE5105	238DE5205	238DE5305	238DE5405	238DE5110	238DE5210	238DE5310	238DE5410

Length (mm)	150				250		
i.d. (mm)	1.0	2.1	3.0	4.6	1.0	2.1	4.6
C18	238DE5115	238DE5215	238DE5315	238DE5415	238DE51	238DE52	238DE54

Length (mm)	Guard cartridges (2/pk) ¹			Guard cartridge kits ²		
i.d. (mm)	For 1.0	For 2.1	For 3.0-4.6	For 1.0	For 2.1	For 3.0-4.6
C18	238GD51DE/N	238GD52DE/N	238GD54DE/N	238GK51DE/N	238GK52DE/N	238GK54DE/N

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

² Includes holder (80101/N), column coupler (HI-081), and 1 guard cartridge.

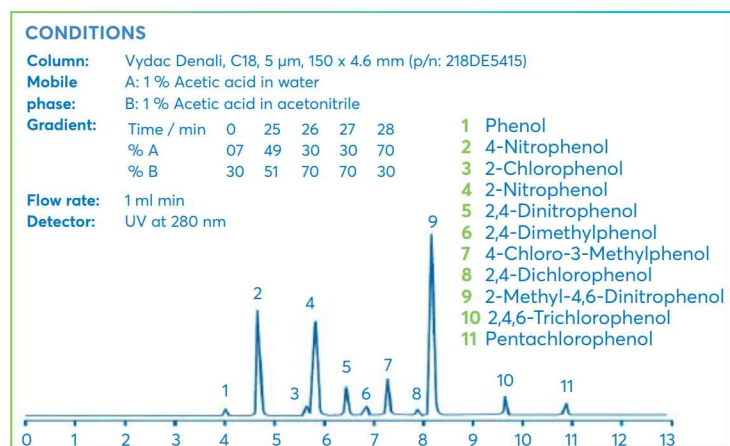


FIGURE 10: EPA 604 Phenols Mixture.

ANALYTICAL COLUMNS - 10 µm

Length (mm)	50	150	250		300
i.d. (mm)	4.6	4.6	4.0	4.6	4.6
C18	238DE10405	238DE10415	DE-10C18-250DF	238DE104	DE-10C18-300DF
Silica	–	–	–	5174066	–

SEMI-PREPARATIVE AND PREPARATIVE COLUMNS - 5 µm

Length (mm)	100	150		250
i.d. (mm)	10	10	22	10
C18	238DE51010	5174053	238DE52215	238DE510
Silica	–	5174054	–	–

SEMI-PREPARATIVE AND PREPARATIVE COLUMNS - 10 µm

Length (mm)	150		250	Guard cartridges (2/pk) ¹	
i.d. (mm)	10	22	10	22	For 10-22
C18	238DE101015	238DE102215	238DE1010	238DE1022	238GCC1010DE
Silica	–	5174057	–	–	–

¹ To be used with semi-prep guard holder (GCH10) and column coupler (HI-081).