

# Vydac Everest

Everest columns (238EV) have unique selectivity and sensitivity, which are the result of bonding technology that improves C18 surface coverage and deactivates residual silanols. Leading 300 Å C18 chemistries have had carbon coverage in the 2.8 to 3.6  $\mu\text{mol m}^{-2}$  range. Everest C18 coverage is in excess of 4  $\mu\text{mol m}^{-2}$  and approximates the theoretical limit based on surface area. The increased shielding of the base silica increases column lifetime and reduces the amount of TFA required to shield the silica.

## Key Features

- Unique selectivity for hydrophilic and hydrophobic peptides
- 300 Å pore size spherical silica
- Excellent sensitivity with little or no TFA in mobile phase
- Ideal for complex enzymatic digests (>12 proteins)

## Ordering Information

### Capillary Columns

#### 5 $\mu\text{m}$

Length / mm	50			100		
i.d. / mm	0.075	0.3	0.5	0.075	0.15	0.3
C18	238EV5.07505	238EV5.305	238EV5.505	238EV5.07510	238EV5.1510	238EV5.310

Length / mm	150				250	
i.d. / mm	0.075	0.15	0.3	0.5	0.15	0.3
C18	238EV5.07515	238EV5.1515	238EV5.315	238EV5.515	238EV5.1525	238EV5.325

### Analytical Columns

#### 5 $\mu\text{m}$

Length / mm	50		100		150		
i.d. / mm	1.0	4.6	2.1	3.0	1.0	2.1	4.6
C18	238EV5105	238EV5405	238EV5210	238EV5310	238EV5115	238EV5215	238EV5415

Length / mm	250			Guard cartridges (2/pk) <sup>1</sup>		Guard cartridge kits <sup>2</sup>
i.d. / mm	1.0	2.1	4.6	For 2.1	For 3.0-4.6	For 3.0-4.6
C18	238EV51	238EV52	238EV54	238GD52EV/N	238GD54EV/N	238GK54EV/N

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

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

### Semi-preparative Columns

#### 5 $\mu\text{m}$

Length / mm	250	Guard cartridges (2/pk) <sup>1</sup>
i.d. / mm	10	For 10-22
C18	238EV510	238GCC510EV

#### 10 $\mu\text{m}$

Length / mm	250
i.d. / mm	22
C18	238EV1022

<sup>1</sup>To be used with semi-prep guard holder (GCH10) and column coupler for All-Guard cartridges (HI-081).

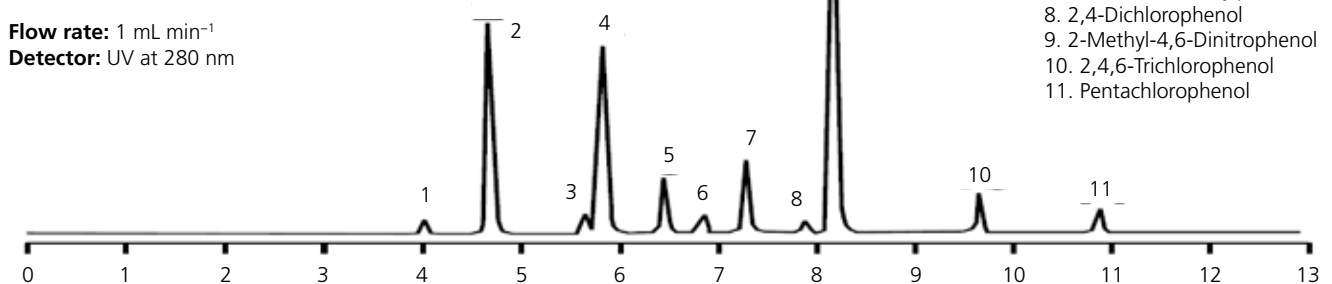
**Column:** Vydac Denali C18, 5  $\mu\text{m}$ , 150 x 4.6 mm (*p/n*: 218DE5415)

**Mobile phase:** A: 1 % Acetic Acid in Water  
B: 1 % Acetic Acid in Acetonitrile

**Gradient:**

Time / min	0	25	26	27	28
% A	07	49	30	30	70
% B	30	51	70	70	30

**Flow rate:** 1 mL min<sup>-1</sup>  
**Detector:** UV at 280 nm



1. Phenol
2. 4-Nitrophenol
3. 2-Chlorophenol
4. 2-Nitrophenol
5. 2,4-Dinitrophenol
6. 2,4-Dimethylphenol
7. 4-Chloro-3-Methylphenol
8. 2,4-Dichlorophenol
9. 2-Methyl-4,6-Dinitrophenol
10. 2,4,6-Trichlorophenol
11. Pentachlorophenol

Figure 6. EPA 604 Phenols Mixture