

Avantor® Alltima HPLC columns

高效能液相層析法柱子

The Alltima HPLC column range was developed by Alltech, Hichrom acquired the entire range from Gace and finally acquired by Avantor.

Alltima phases are acid and base-deactivated, giving excellent peak shape for acids, bases, and neutrals in a single run. Polymerically bonded and double-endcapped for longer lifetimes. Alltima column are great general purpose 'workhorse' column.

Key features

- Base deactivated silica
- Stable bonding for longer lifetime
- Symmetrical peak shape



Column: Alltima C8, 5 μ m, 150 x 4.6 mm (p/n 88072)

Dimensions: 150 x 4.6 mm

Mobile phase: A: 0.05 M K_2HPO_4 , pH 3.3

B: Methanol

C: Acetonitrile

Time / min	0	2	5
% A	80	80	45
% B	10	10	30
% C	10	10	25

Flow rate: 2.0 mL min⁻¹

Detector: UV at 280 nm

1. Aspirin
2. Acetaminophen
3. Naproxen
4. Fenoprofen
5. Ibuprofen
6. Diclofenac

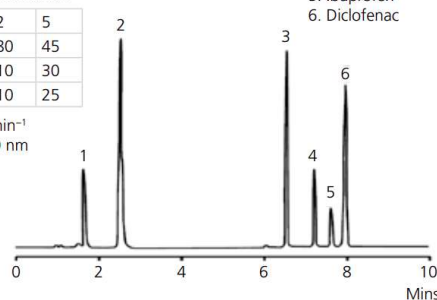


Figure 1. Analgesics

Column: Alltima C18, 3 μ m, 53 x 7 mm Rocket (p/n: 50605)

Mobile phase: A: 0.1 % Trifluoroacetic Acid in

0.025 M Ammonium Acetate

B: 0.1 % Trifluoroacetic Acid in Acetonitrile

Gradient:	Time / min	0	4
% A		80	5
% B		20	95

Flow rate: 3.5 mL min⁻¹

Detector: UV at 254 nm

1. Acetazolamide
2. Hydrochlorothiazide
3. Triamterene
4. Hydroflumethiazide
5. Clopamide
6. Trichloromethiazide
7. Indapamide
8. Bumetanide
9. Spironolactone

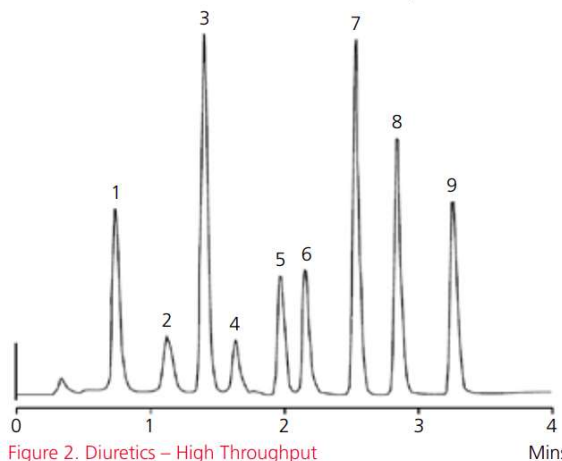


Figure 2. Diuretics – High Throughput

Alltima Phase Specifications

Phase	Particles size/ μm	Endcapped	Properties	Applications	USP code
C18	3,5,10	Yes	Classic reversed-phase retention and selectivity	High quality hydrophobic general purpose C18	L1
C8	3,5	Yes	Lower retention compared to C18 phases	Reversed- phase application where C18 is too retentive	L7

Other phase : Amino, Cyano, Phenyl, Silica are also available.

Specifications

Carbon load 16% Surface area 340 m^2/g

Analytical Column

3 μm

Length/mm	20		50		100			150			250
i.d./mm	2.1	4.6	2.1	4.6	1.0	2.1	4.6	2.1	3.0	4.6	4.6
C18	√	√	√	√	√	√	√	√	√	√	√
C8	-	-	-	√	-	-	√	-	-	√	-

5 μm

Length/mm	50		100		125	150			250				300		
i.d./mm	2.1	4.6	3.0	4.6	4.0	2.1	3.0	4.6	2.1	3.0	4.0	4.6	3.9	4.0	4.6
C18	√	√	-	√	√	√	√	√	√	√	√	√	√	√	√
C8	-	-	√	-	-	√	√	√	-	-	-	√	-	-	-

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