

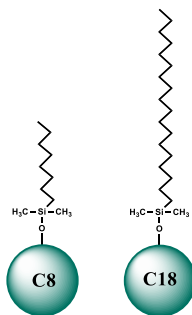
Brownlee Pecosphere Cartridge Columns

PerkinElmer pioneered the development of Fast HPLC and introduced the popular 3 μm particle size '3 x 3' Columns (33 mm x 4.6 mm) in the 1980s. The '3 x 3' columns are capable of very rapid analysis and still they are still very popular because of the economical price and reliable performance. The Pecosphere cartridges are also available 83 mm and 150 mm lengths for the separation of more complex mixtures.

They are packed with rugged, high purity silica in 3 μm and 5 μm , 80 Å pore size particles; with standard end-capping for the analysis of acidic and neutral analytes. A special end-capped Reduced Activity (RA) version that is especially suited for the analysis basic analytes. In addition the 10 μm particles size C18 Scavenger cartridge designed to remove contaminants from the mobile phase when installed prior to the HPLC injector. These columns use cartridge style hardware – thus the associated column holder needs to be ordered with the column.

Features and Benefits

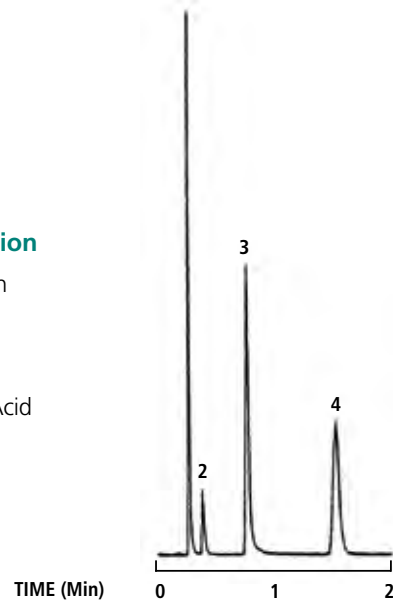
- The Pecosphere '3 x 3' column is the world's first fast HPLC column
- Reduced Activity C18 and C8 with low silanol activity for the analysis of basic compounds



Analysis of an Analgesic Tablet Using Fast LC

Peak Identification

1. Acetaminophen
2. Caffeine
3. Salicylamide
4. Acetylsalicylic Acid



Chromatographic Conditions

Column	Detection	Mobile Phase	Flow Rate	Sample	Part No.
Pecosphere 3 x 3 C18 (33 x 4.6 mm) CH_3CN in H_2O	UV at 240 nm	0 – 15%	2.0 mL/min	1 μL of the tablet extract	02580164

Material Characteristics

Phase*	Particle Sizes (μm)	Pore Size (Å)	Carbon Load	Surface Area (M^2/g)	End Capping	pH Stability	USP Code
C18	3.0, 5.0	80	11%	170	Yes	2.0 – 8.0	L1
RA C8	3.0, 5.0	80	5%	200	Yes	2.0 – 8.0	L7
RA C18	3.0, 5.0	80	12%	200	Yes	2.0 – 8.0	L1
C18 Scavenger	10	80	11%	170	Yes	2.0 – 8.0	L1

Cartridge Columns and Hardware

Phase	Length (mm)	Particle Size	Qty.	4.6 mm ID Part No.	Column Holder Part No.
Aquapore Octyl (C18)	33	3 μm	5	02580164	07150028
	83	3 μm	1	02580166	07150029
	150	5 μm	1	02580169	07150030
RA C18	33	3 μm	5	02580195	07150028
	83	3 μm	1	02580194	07150029
RA C8	33	3 μm	5	02580191	07150028
	83	3 μm	1	02580192	07150029
C18 Scavenger	33	10 μm	5	02580202	07150028
C18 Scavenger Kit*	33	10 μm	1	02580204	–

* Scavenger kit includes C18 cartridge (**02580202**) and holder (**07150028**)