

Thermo Scientific Synchronis C8 HPLC Columns

Consistent, predictable separations,
Column after column, time after time

- Outstanding reproducibility
- Highly pure, high surface area silica
- Less hydrophobic than C18
- Double endcapped for extra surface coverage
- Highly inert towards basic compounds
- Rigorously tested to ensure quality

Specifications

Particle size	1.7 µm, 3 µm, 5 µm	Carbon load	10 %
Pore size	100 Å	Endcapped	Yes
Surface area	320 m ² /g	USP classification	L7
pH range	2-8		

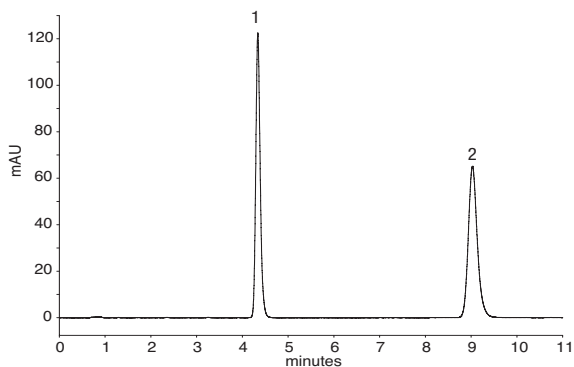


Less retentive than C18

Thermo Scientific™ Synchronis™ C8 HPLC columns are less hydrophobic than the C18 and are therefore particularly useful where the lesser degree of hydrophobicity is needed

in order to successfully retain compounds of interest. Synchronis C8 HPLC columns can also be used where it is desirable to elute compounds more quickly than with a C18 HPLC column.

Application: Fenopropfen (USP)



Column:

Mobile phase:
Flow rate:
Temperature:
Detection:
Injection volume:

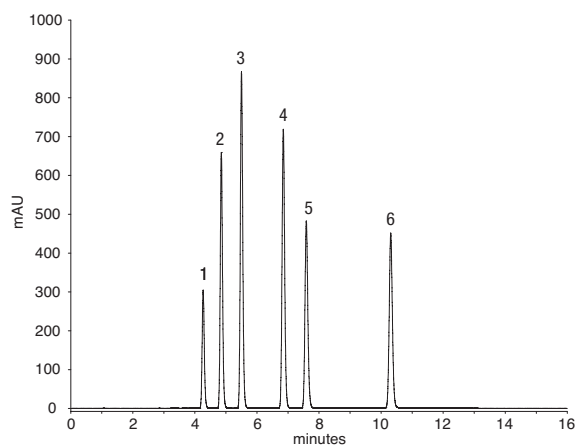
Synchronis C8 5 µm, 150 mm x 4.6 mm

acetonitrile:water:phosphoric acid (50:49.6:0.4)
2.0 mL/min
30 °C
272 nm
20 µL

1. Fenopropfen
2. Gemfibrozil

Parameter	USP Specification	Measured Fenopropfen (5 replicate injections)	Measured Gemfibrozil (5 replicate injections)
Resolution	> 8	—	17.6
Relative retention time	~ 0.5	0.48	—
Efficiency (N)	> 3000	9812	10254
Tailing factor	< 2	1.21	1.22
%RSD retention time	< 2%	0.13%	0.14%
%RSD peak area	< 2%	1.6%	1.8%

Application: Uron Herbicides



Column: Synchronis C8 5 µm, 150 mm x 4.6 mm
Mobile phase: A: water
 B: acetonitrile
Gradient: 35 to 60 % B in 10 minutes
Flow rate: 1.0 mL/min
Temperature: 30 °C
Detection: 240 nm
Injection volume: 20 µL

1. Tebuthiuron
2. Metoxuron
3. Monuron
4. Chlorotoluron
5. Diuron
6. Linuron

Herbicide	RT (%RSD) (6 replicate injections)	Peak Area (%RSD) (6 replicate injections)	Peak Asymmetry
1. Tebuthiuron	0.31	0.95	1.17
2. Metoxuron	0.25	0.64	1.18
3. Monuron	0.18	0.20	1.16
4. Chlorotoluron	0.12	0.55	1.15
5. Diuron	0.10	0.37	1.19
6. Linuron	0.05	0.65	1.13

Ordering Information

Description	Particle Size	Length (mm)	2.1 mm ID	3.0 mm ID	4.0 mm ID	4.6 mm ID
Synchronis C8	1.7 µm	30	97202-032130	—	—	—
		50	97202-052130	97202-053030	—	97202-054630
		100	97202-102130	97202-103030	—	—
	3 µm	50	97203-052130	—	—	—
		100	—	97203-103030	—	97203-104630
		150	—	—	—	97203-154630
	5 µm	30	97205-032130	97205-033030	97205-034030	97205-034630
		50	97205-052130	97205-053030	97205-054030	97205-054630
		100	97205-102130	97205-103030	97205-104030	97205-104630
		150	97205-152130	97205-153030	97205-154030	97205-154630
		250	97205-252130	97205-253030	97205-254030	97205-254630
Drop-in guard cartridges (4/pk)	5 µm	10	97205-012101	97205-013001	97205-014001	—
UNIGUARD Guard Cartridge Holder			852-00	852-00	850-00	—

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Synchronis HPLC columns are manufactured, packed and tested in ISO 9001:2008 accredited facilities. Each lot of silica is tested for the physical properties of the silica support and only released for production if it meets the stringent test specifications.

Each bonded lot of chromatographic packing material is rigorously tested for primary and secondary interactions with the bonded phase.

New, enhanced, automated packing methods drive consistency even further and every column is individually tested to ensure that it meets the required quality.

These extensive testing and quality control procedures ensure the delivery of a consistent product, column after column.

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