

Thermo Scientific Synchronis HILIC HPLC Columns

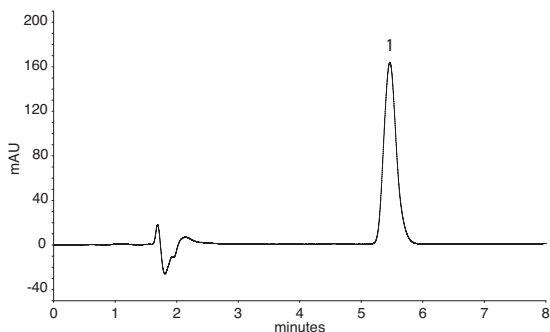
Consistent, predictable separations,
Column after column, time after time

- Highly pure, high surface area silica
- Zwitterionic bonded phase
- Enhanced retention of polar and hydrophilic analytes
- Excellent reproducibility
- Rapid equilibration
- Rigorously tested to ensure quality

Specifications

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

Application: Allantoin



Column: Synchronis HILIC 5 μm , 100 mm x 4.6 mm
Mobile phase: ammonium formate buffer (pH 3):acetonitrile (10:90)
Flow rate: 1.0 mL/min
Temperature: 30 °C
Detection: 210 nm
Injection volume: 10 μL

1. Allantoin



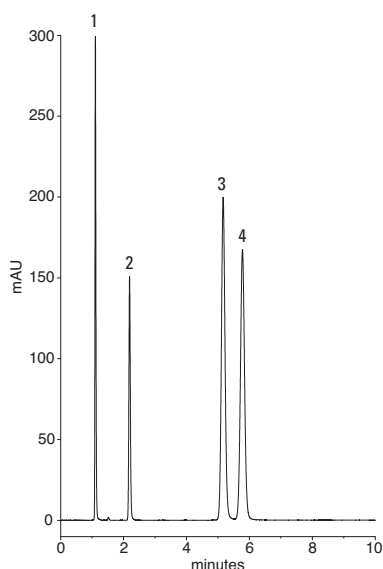
Enhanced retention of polar and hydrophilic analytes

Hydrophilic Interaction Liquid Chromatography (HILIC) is an increasingly popular technique offering complementary selectivity to reversed phase. With the ability to retain highly polar and hydrophilic compounds, Thermo Scientific™ Synchronis™ HILIC HPLC columns have been developed to aid the analysis of compounds that are traditionally difficult to retain using conventional C18 columns.

The zwitterionic modified stationary phase results in total charge equalisation and therefore a neutral (uncharged) but highly polar surface. Synchronis HILIC HPLC columns offer enhanced retention of polar and hydrophilic analytes. Furthermore, the highly organic mobile phase contains low salt levels, making Synchronis HILIC HPLC columns ideal for use with electrospray mass spectroscopy.

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HILIC retention and selectivity



Column: Synchronis HILIC 5 μ m, 150 mm x 4.6 mm
Mobile phase: 100 mM acetate (pH 5):acetonitrile (10:90)
Flow rate: 1.0 mL/min
Temperature: 40 °C
Detection: 254 nm
Injection volume: 10 μ L

1. Benzophenone
 2. Uracil
 3. Cytosine
 4. Acyclovir

Ordering Information

Description	Particle Size	Length (mm)	2.1 mm ID	3.0 mm ID	4.0 mm ID	4.6 mm ID
Synchronis HILIC	1.7 μ m	30	97502-032130	—	—	—
		50	97502-052130	97502-053030	—	97502-054630
		100	97502-102130	97502-103030	—	—
	3 μ m	50	97503-052130	—	—	—
		100	—	—	—	97503-104630
		150	97503-152130	—	—	97503-154630
	5 μ m	30	97505-032130	97505-033030	97505-034030	97505-034630
		50	97505-052130	97505-053030	97505-054030	97505-054630
		100	97505-102130	97505-103030	97505-104030	97505-104630
		150	97505-152130	97505-153030	97505-154030	97505-154630
		250	97505-252130	97505-253030	97505-254030	97505-254630
Drop-in guard cartridges (4/pk)	5 μ m	10	97505-012101	97505-013001	97505-014001	97505-014001
UNIGUARD Guard Cartridge Holder			852-00	852-00	850-00	—

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

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.

thermoscientific.com/Synchronis

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