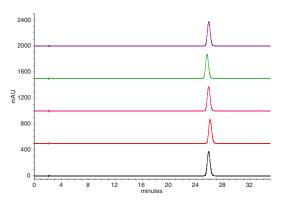
# Thermo Scientific Syncronis C18 HPLC Columns

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

- · Outstanding reproducibility
- · Highly pure, high surface area silica
- High carbon load for increased retention
- 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	16 %
Pore size	100 Å	Endcapped	Yes
Surface area	320 m <sup>2</sup> /g	<b>USP</b> classification	L1
pH range	2-9		



Column		Retention Time (min)	Efficiency	Peak Area
	1	25.82	62069	11532105
	2	26.03	61688	11543904
	3	25.90	62657	11527718
	4	25.66	61317	11463444
	5	25.92	63142	11520618
	Inter-column precision (% BSD)	0.52	1 19	0.27



## Outstanding column to column reproducibility

When developing a new method, one of the most important goals for the chromatographer is to achieve a consistent, reproducible separation. The selection of a highly reproducible HPLC column is essential if this goal is to be attained.

Thermo Scientific<sup>TM</sup> Syncronis<sup>TM</sup> C18 HPLC columns show excellent column to column reproducibility, as illustrated here by the analysis of zidovudine using five separate columns.

The reproducibility in terms of retention time and peak area is less than or equal to 0.5%, column to column. This indicates that the columns are well packed.

The variation in peak area is 0.27%, which is important for quantitation of analytes.

Syncronis C18 HPLC columns achieve this goal, starting from the highly pure, high surface area silica and dense bonding, all controlled and characterized through the use of rigorous testing.

New, enhanced, automated column packing methods drive consistency even further and every column is individually tested to ensure that it meets the required specifications. These extensive testing and quality control procedures ensure the delivery of a consistent product, column after column.

 Column:
 Syncronis C18 5 μm, 250 mm x 4.0 mm

 Mobile phase:
 water:methanol (4:1)

 Flow rate:
 1.0 mL min<sup>-1</sup>

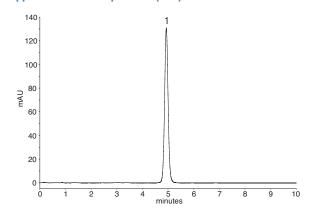
1.0 mL min<sup>-1</sup> 25 °C 265 nm 10 µL



Temperature: Detection:

Injection volume:

### **Application: Chloramphenicol (USP)**



Column:	Syncronis C18 5 µm, 100 mm x 4.6 mm
Mobile phase:	water:methanol:glacial acetic acid (54.9:45:0.1)
Flow rate:	1.0 mL/min
Temperature:	25 °C
Detection:	280 nm
Injection volume:	10 μL

1. Chloramphenicol

Parameter	USP Specification	Measured (6 replicate injections)
Efficiency (N)	> 1800	6164
Tailing factor	< 2	1.06
%RSD retention time	< 1%	0.03%
%RSD peak area	< 1%	0.32%

### **Ordering Information**

Description	Particle Size	Length (mm)	2.1 mm ID	3.0 mm ID	4.0 mm ID	4.6 mm ID
		30	97102-032130	-	_	-
Syncronis C18	1.7 μm	50	97102-052130	97102-053030	-	97102-054630
		100	97102-102130	97102-103030	-	- 97103-054630 97103-104630
		30	97103-032130	-	-	_
	Qum	50	97103-052130	97103-053030	-	97103-054630
	3 μm	100	97103-102130	97103-103030	-	97103-104630
		150	97103-152130	-	-	97103-154630
		30	97105-032130	97105-033030	97105-034030	97105-034630
		50	97105-052130	97105-053030	97105-054030	97105-054630
	5 μm _ _	100	97105-102130	97105-103030	97105-104030	97105-104630
		150	97105-152130	97105-153030	97105-154030	97105-154630
		250	97105-252130	97105-253030	97105-254030	97105-254630
Drop-in guard cartridges (4/pk)	5 μm	10	97105-012101	97105-013001	97105-014001	_
UNIGUARD Guard Cartridge Holder			852-00	852-00	850-00	_

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

Syncronis 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/Syncronis

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