

# Thermo Scientific Synchronis Phenyl HPLC Columns

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

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



## Specifications

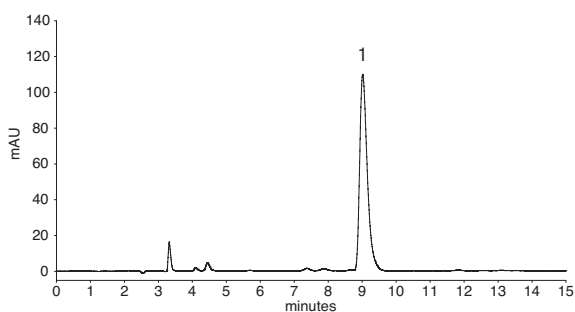
<b>Particle size</b>	1.7 µm, 3 µm, 5 µm	<b>Carbon load</b>	11 %
<b>Pore size</b>	100 Å	<b>Endcapped</b>	Yes
<b>Surface area</b>	320 m <sup>2</sup> /g	<b>USP classification</b>	L11
<b>pH range</b>	2-8		

## Alternative selectivity reversed phase columns

Thermo Scientific™ Synchronis™ Phenyl HPLC columns exhibit alternative selectivity to C18 and C8 alkyl chain columns, particularly for aromatic and moderately polar analytes.

The phenyl group also provides the stationary phase with a moderate degree of hydrophobicity, making it ideal for the separation of analyte mixtures with varying polarity and aromaticity.

## Application: Oxacillin Sodium (USP)



**Column:** Synchronis Phenyl 5 µm, 300 mm x 4.0 mm  
**Mobile phase:** phosphate buffer:acetonitrile:methanol (70:30:10)  
**Flow rate:** 1.0 mL/min (2 mL/min in USP method)  
**Temperature:** 25 °C  
**Detection:** 225 nm  
**Injection volume:** 10 µL

1. Oxacillin Sodium (0.11mg/mL)

Parameter	USP Specification	Measured (6 replicate injections)
Efficiency (N)	> 2000	7904
Tailing factor	< 1.6	1.42
%RSD retention time	< 2 %	0.03 %
%RSD peak area	< 2 %	0.29 %

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## Ordering Information

Description	Particle Size	Length (mm)	2.1 mm ID	3.0 mm ID	4.0 mm ID	4.6 mm ID
Synchronis Phenyl	1.7 µm	30	97902-032130	–	–	–
		50	97902-052130	97902-053030	–	97902-054630
		100	97902-102130	97902-103030	–	–
	3 µm	50	97903-052130	–	–	–
		100	–	–	–	97903-104630
		150	–	–	–	97903-154630
	5 µm	30	97905-032130	97905-033030	97905-034030	97905-034630
		50	97905-052130	97905-053030	97905-054030	97905-054630
		100	97905-102130	97905-103030	97905-104030	97905-104630
150		97905-152130	97905-153030	97905-154030	97905-154630	
250		97905-252130	97905-253030	97905-254030	97905-254630	
Drop-in guard cartridges (4/pk)	5 µm	10	97905-012101	97905-013001	97905-014001	–
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](http://thermoscientific.com/Synchronis)

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