

# Thermo Scientific Synchronis Amino HPLC Columns

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

- Outstanding reproducibility for reversed phase, normal phase, ion exchange and HILIC
- Highly pure, high surface area silica
- Alternative selectivity to C18
- Double endcapped for extra surface coverage
- Rigorously tested to ensure quality



## Specifications

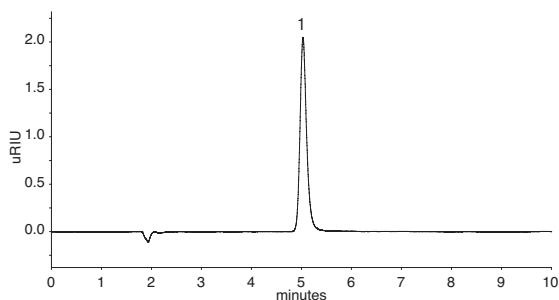
<b>Particle size</b>	1.7 $\mu\text{m}$ , 3 $\mu\text{m}$ , 5 $\mu\text{m}$	<b>Carbon load</b>	4%
<b>Pore size</b>	100 $\text{\AA}$	<b>Endcapped</b>	Yes
<b>Surface area</b>	320 $\text{m}^2/\text{g}$	<b>USP classification</b>	L8
<b>pH range</b>	2-8		

## Versatile amino phase

Thermo Scientific™ Synchronis™ Amino HPLC columns are extremely versatile and deliver excellent chromatography in four modes. They can be used with common buffers and an organic modifier as a weak

ion exchange material for the analysis of anions and organic acids. When used as a normal phase material, Synchronis Amino offers an alternative selectivity to silica and excels for carbohydrate analysis when used in reversed phase or HILIC mode.

## Application: Lactulose

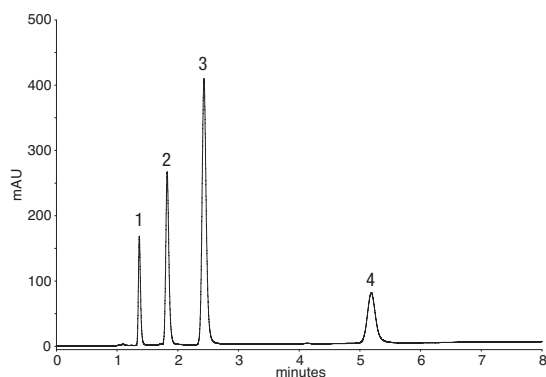


**Column:** Synchronis Amino 5  $\mu\text{m}$ , 150 mm x 4.6 mm  
**Mobile phase:** water:acetonitrile (30:70)  
**Flow rate:** 1.0 mL/min  
**Temperature:** 35  $^{\circ}\text{C}$   
**Detection:** RI  
**Injection volume:** 5  $\mu\text{L}$

1. Lactulose

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## Ion exchange retention and selectivity



**Column:** Synchronis Amino 5  $\mu\text{m}$ , 150 mm x 4.6 mm  
**Mobile phase:** 50 mM phosphate (pH 3.0)  
**Flow rate:** 1.0 mL/min  
**Temperature:** 40 °C  
**Detection:** 254 nm  
**Injection volume:** 10  $\mu\text{L}$

1. Uracil
2. Cytidine monophosphate
3. Adenosine monophosphate
4. Guanosine monophosphate

## Ordering Information

Description	Particle Size	Length (mm)	2.1 mm ID	3.0 mm ID	4.0 mm ID	4.6 mm ID
Synchronis Amino	1.7 $\mu\text{m}$	30	97702-032130	–	–	–
		50	97702-052130	97702-053030	–	97702-054630
		100	97702-102130	97702-103030	–	–
	3 $\mu\text{m}$	50	97703-052130	–	–	–
		100	–	–	–	97703-104630
		150	–	–	–	97703-154630
	5 $\mu\text{m}$	30	97705-032130	97705-033030	97705-034030	97705-034630
		50	97705-052130	97705-053030	97705-054030	97705-054630
		100	97705-102130	97705-103030	97705-104030	97705-104630
		150	97705-152130	97705-153030	97705-154030	97705-154630
		250	97705-252130	97705-253030	97705-254030	97705-254630
	Drop-in guard cartridges (4/pk)	5 $\mu\text{m}$	10	97705-012101	97705-013001	97705-014001
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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