Product Specifications

- **Stability in 100% aqueous mobile phase**
- **Outstanding reproducibility**
- **Highly pure, high surface area silica**
- **Highly inert towards basic compounds**
- **Rigorously tested to ensure quality**

Thermo Scientific Syncronis aQ HPLC Columns

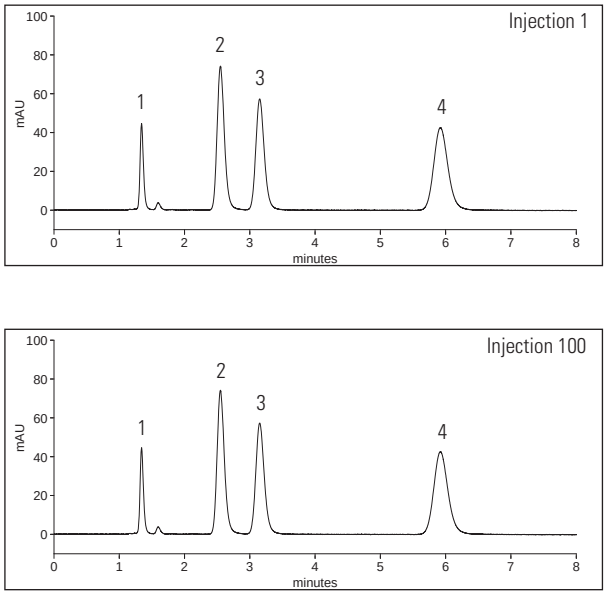
Consistent, predictable separations,
Column after column, time after time

Specifications

Particle size	1.7 µm, 5 µm	**Carbon load**	19 %
Pore size	100 Å	**Endcapped**	Polar
Surface area	320 m^2/g	**USP classification**	L1
pH range	2 - 8		

Stability in 100% aqueous mobile phase

In comparison to a conventionally endcapped C18, the Syncronis™ aQ polar end-capped C18 stationary phase exhibits superior stability towards aqueous mobile phase. Syncronis aQ shows no degradation in performance after 100 injections in a buffered 100% aqueous eluent.



Stability of Syncronis aQ in 100% aqueous mobile phase

Column: Syncronis aQ, 5µm, 100mm x 4.6mm

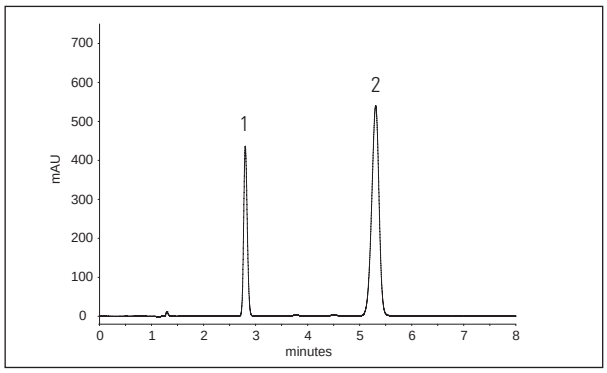
Mobile phase:	50mM Aqueous K_2HPO_4 (pH 6)
Flow rate:	0.7 mL/min
Temperature:	30°C
Detection:	260 nm
Injection volume:	2 µL

1. Cytidine-5'-diphosphate
2. Adenosine-5'-triphosphate
3. Adenosine-5'-diphosphate
4. Adenosine-5'-monophosphate

Ordering Information

Description	Particle size	Length (mm)	2.1 mm ID	3 mm ID	4 mm ID	4.6 mm ID
Syncronis aQ	1.7 µm	30	97302-032130	–	–	–
		50	97302-052130	97302-053030	–	97302-054630
		100	97302-102130	97302-103030	–	–
	5 µm	30	97305-032130	97305-033030	97305-034030	97305-034630
		50	97305-052130	97305-053030	97305-054030	97305-054630
		100	97305-102130	97305-103030	97305-104030	97305-104630
		150	97305-152130	97305-153030	97305-154030	97305-154630
		250	97305-252130	97305-253030	97305-254030	97305-254630
Drop-in guard cartridges (4/pk)	5 µm	10	97305-012101	97305-013001	97305-014001	–

Application: Amoxicillin and Potassium Clavulanate (USP)



Column: Syncronis aQ, 5µm, 300mm x 4.0mm

Mobile phase:	Phosphate Buffer (pH 4.4): MeOH (95:5)
Flow rate:	2.0 mL/min
Temperature:	25°C
Detection:	210 nm
Injection volume:	20 µL

1. Amoxicillin
2. Potassium Clavulanate

Parameter	USP Specification	Measured Amoxicillin (6 replicate injections)	Measured K Clavulanate (6 replicate injections)
Resolution	> 3.5	–	12.8
Efficiency (N)	> 550	7598	6475
Tailing factor	< 1.5	1.15	0.92
%RSD Retention time	< 2%	0.29%	0.36%
%RSD Peak area	< 2%	0.30%	0.29%

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

Syncronis HPLC columns are manufactured, packed and tested in ISO9000 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.

For more information, visit **www.thermoscientific.com/Syncronis**

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