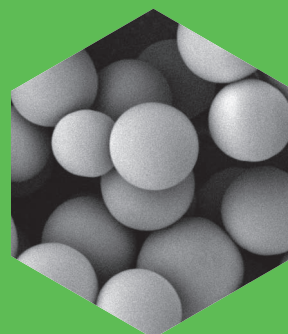


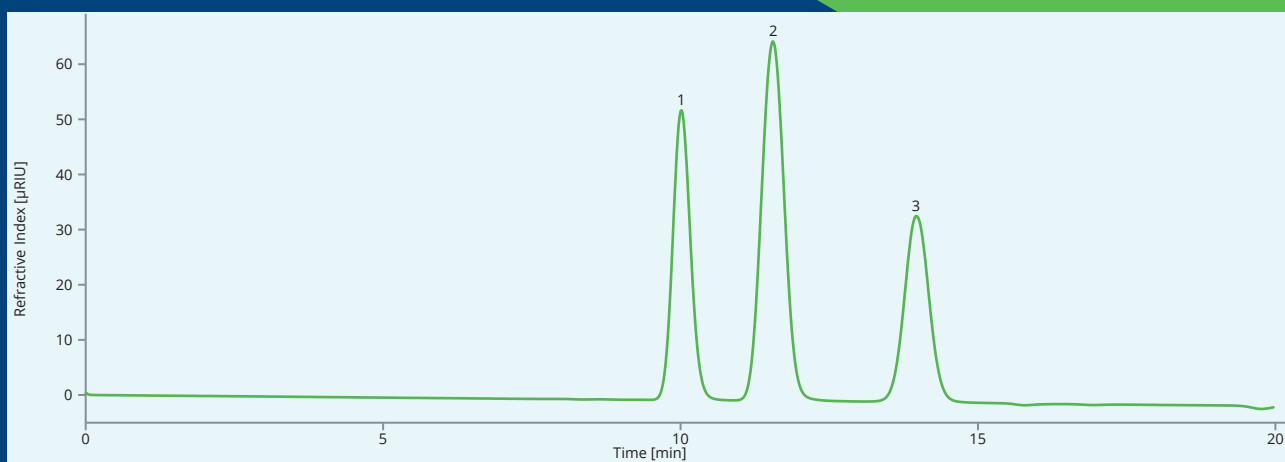
SPEED UP your sugar analysis

ASTRA® Sugar series extends silica based HPLC column range. New polymer stationary phase offers faster analysis thanks to excellent particle shape and particle size distribution. Cross-linked sulfonated styrene-divinyl benzene (SDVB) is available in Ca^{2+} form. The columns are ideal for saccharides, sugar alcohols and oligosaccharides analysis.

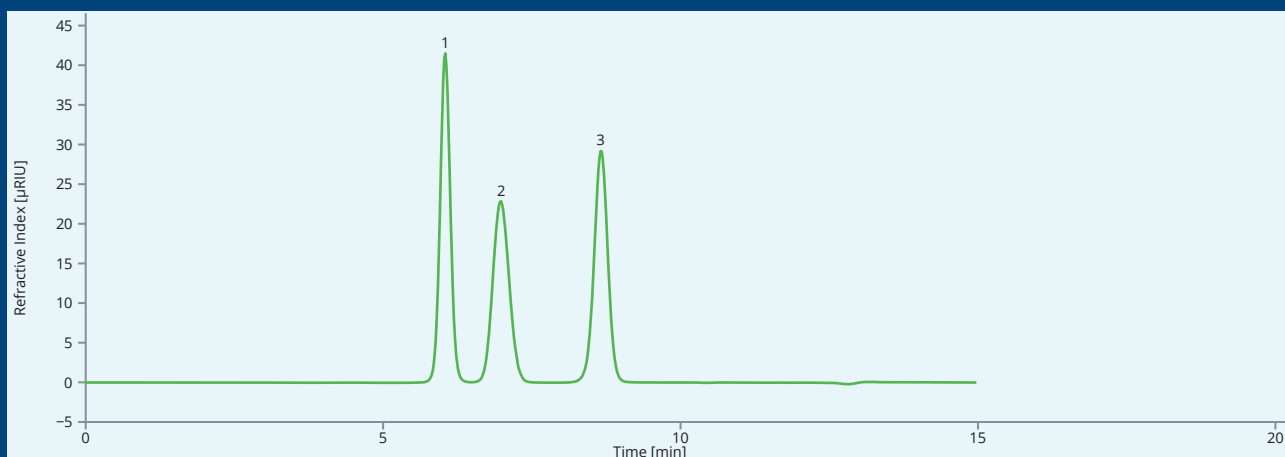


ASTRA® Sugar Ca(S) benefits

- Fast analysis (possible flowrate up to 1.5 mL/min)
- High efficiency
- Low back pressure
- Column-to-column reproducibility



Syrup analysis on ASTRA® Sugar Ca(S)



Fast analysis of saccharides (1.0 mL/min)

SPEED UP your sugar analysis

Retention times at different flowrate on ASTRA® Sugar Ca(S)

Analyte	Flowrate 0.5 mL/min			Flowrate 1.0 mL/min		
	Rt	Symmetry	N	Rt	Symmetry	N
Melezitose	11.375	1.179	3127	5.760	1.230	1831
Sucrose	12.189	1.185	4411	6.174	1.163	2976
Maltose	12.340	1.191	3973	6.260	1.152	2319
Lactose	12.552	1.202	3808	6.375	1.144	2194
Glucose	13.985	1.215	6005	7.095	1.138	2717
Galactose	15.187	1.185	6019	7.707	1.138	3599
Xylose	15.151	1.203	5719	7.671	1.126	2788
Maltitol	15.148	1.122	3316	7.743	1.106	1972
Fructose	16.677	1.130	5815	8.517	1.128	3664
Manitol	19.798	1.126	5799	10.202	1.105	3745
Glycerol	20.104	1.198	7101	10.047	1.181	5702
Ethanol	21.663	1.300	7025	10.842	1.277	5938
Xylitol	23.704	1.125	6654	12.217	1.102	4359
Sorbitol	23.452	1.109	5879	12.178	1.082	3810

Ordering information

Phase	Particle size	Max. pressure	Max. flowrate	USP	p/n
ASTRA® Sugar Ca(S)	10 µm	60 bar	1.5 mL/min	L19	AST-5906-VN80

Method used in the chromatograms

Column	ASTRA® Sugar Ca(S)
Dimensions	300 mm × 8.0 mm
Part number	AST-5906-VN80
Mobile phase	100% H ₂ O for HPLC
Flow rate	0.6 mL/min (upper chromatogram) 1.0 mL/min (lower chromatogram)
Temperature	70 °C
Injection volume	20 µL
Detection	RID (55 °C)
Analytes	1. Sucrose 2. Glucose 3. Fructose

Distributor

