

Errata Notice

This document contains references to PSS or Polymer Standards Service. Please note that PSS is now Agilent. This document will be republished as an Agilent document in the future.



A part of Agilent

10011 - Column Application Note Characterization of Xanthan

High molecular weight hetero polysaccharid. Xanthans are used as thickening agent and stabilizers for emulsions in food, cosmetics, paintings, and in crude oil industry.

Experimental Setup

Mobile Phase:	Water Disodium hydrogen phosphate 0.07M
Stationary Phase:	PSS SUPREMA
Flow rate [mL/min]:	0,33
Temperature [°C]:	25
Detection:	Shodex-RI71
Calibration:	Kit Pullulan
Data processing:	PSS WinGPC

Recommendations for Sample Concentration

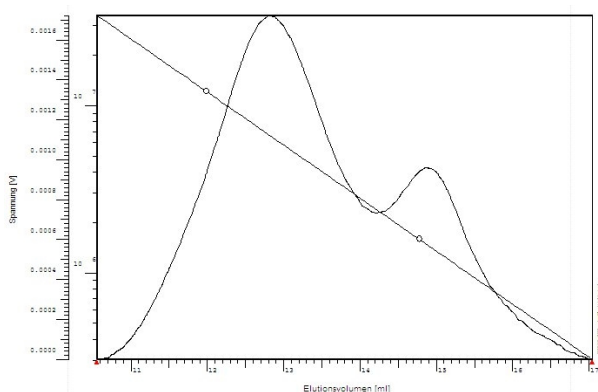
narrow PDI	
M 100 Da - 10 000 Da:	2 g/L
M 10 000 Da - 1 000 000 Da:	1-2 g/L
M > 1 000 000 Da:	0.5 g/L or less
broad PDI (>1.5)	
all molar masses:	3.0 - 5.0 g/L
Injection volume [μ L]:	100



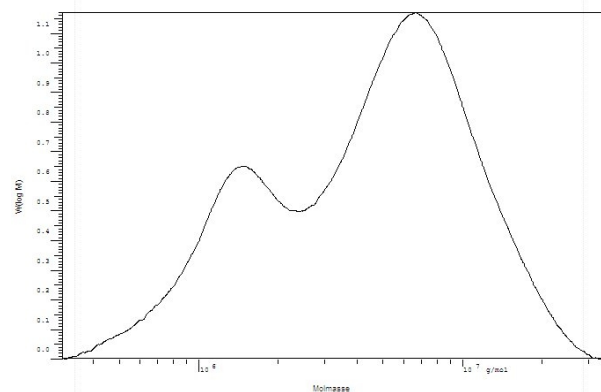
Suitable Columns

low molecular weights:	P/N 206-0001 (set of 3) OR sua083005lis (1 linear)
medium molecular weights:	P/N 206-0002 (set of 3) OR sua083005lim (1 linear)
high molecular weights:	P/N 206-0003 (set of 3) OR sua083010lxl (1 linear)
ultrahigh molecular weights:	P/N 206-0004 (set of 3) OR sua083010luh (1 linear)

Elugram and Calibration separation on PSS SUPREMA



Molar Mass Distribution separation on PSS SUPREMA



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