A part of **Agilent**

10277 - Column Application Note Characterisation of Glycerides

Modified biopolymer for production of emulsions in food-, cosmetic- and pharma industries. This GPC/SEC method is described in Ph. Eur. 2000.

Experimental Setup

Mobile Phase:	Tetrahydrofuran
Stationary Phase:	PSS SDV
Flow rate [mL/min]:	1,00
Temperature [°C]:	25
Detection:	GPC1100 Refractive index
Calibration:	HPLC Calibration
Data processing:	PSS WinGPC Unity

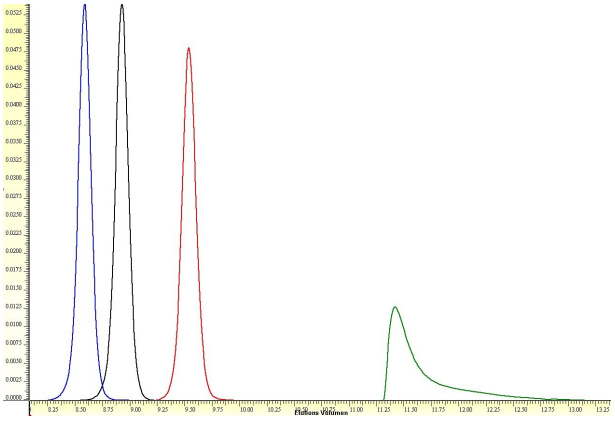
Recommandations for Sample Concentration

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 [µL]:	40

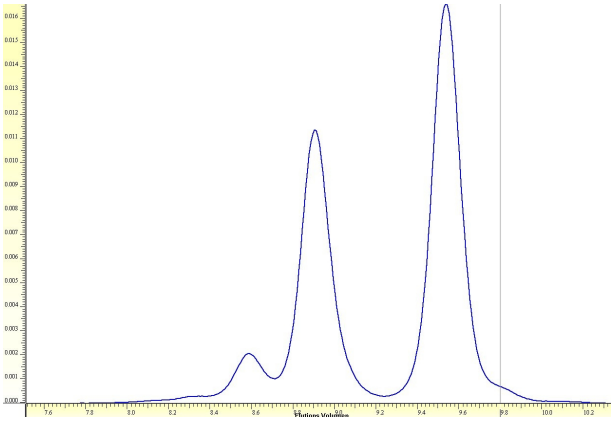
Suitable Columns

low molecular weights:	S/N sda080505 and sda0860051e2
medium molecular weights:	-
high molecular weights:	-
ultrahigh molecular weights:	-

Elugram overlay of triglyceride, diglyceride, and monoglyceride and glycerol



Elugram of a technical mixture
separation on PSS SDV



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