

Errata Notice

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10308 - Column Application Note Characterization of Low Molecular Mass Heparin according to Pharmaeuropa

Heparin, a highly-sulfated glycosaminoglycan, is widely used as an injectable anticoagulant and has the highest negative charge density of any known biological molecule. Low molecular weight heparins (LMWHs) are characterized using GPC/SEC according to EU/US and other pharmacopeias.

Experimental Setup

Mobile Phase:	Water Disodium phosphate 28.4 g/l pH 5
Stationary Phase:	PSS PROTEEMA
Flow rate [mL/min]:	0,50
Temperature [°C]:	25
Detection:	GPC1200 UV 234 nm GPC1200 Refract
Calibration:	CRS Batch 2, Mn = 3800
Data processing:	PSS WinGPC

Recommndations 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]:	25

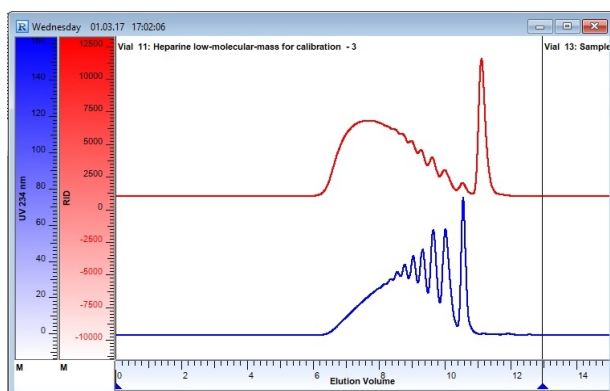


Suitable Columns

low molecular weights:	P/N pra080505 and 2x pra0830051e2
medium molecular weights:	-
high molecular weights:	-
ultrahigh molecular weights:	-

Heparin Calibration CRS Batch 2 separation on PSS PROTEEMA

separation on PSS PROTEEMA



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