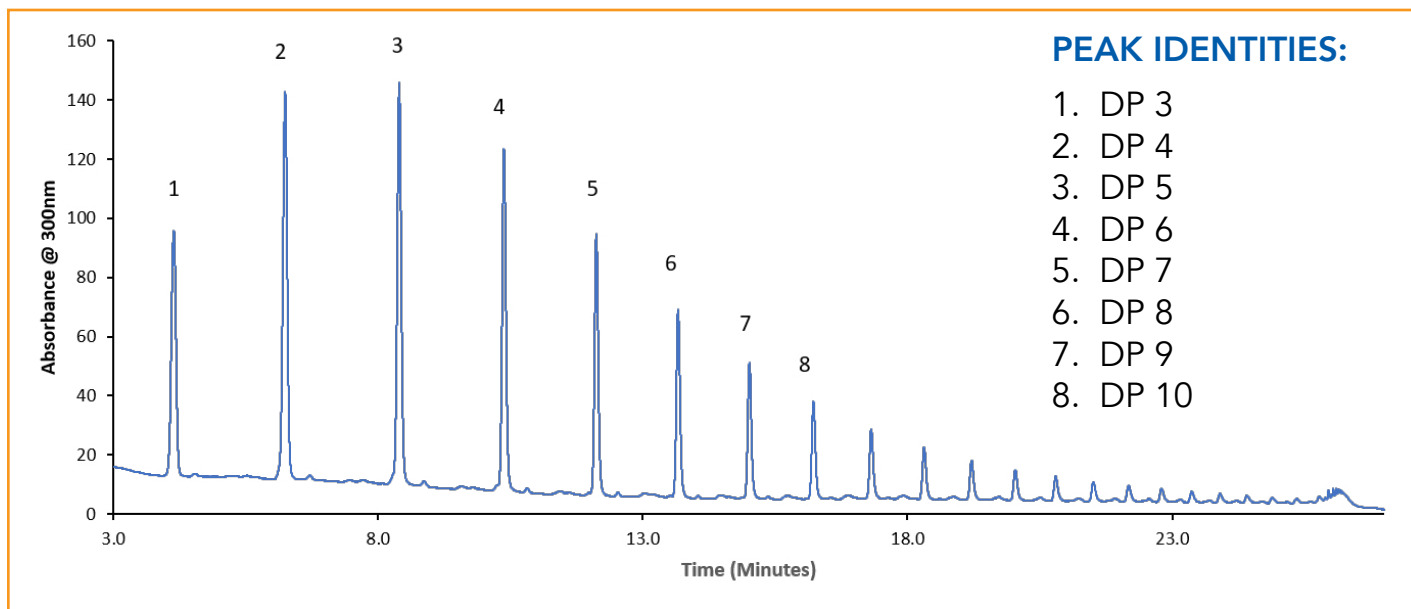




Separation of Polysaccharide Ladder on the HALO® 1.5 mm ID Penta-HILIC Column

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TEST CONDITIONS:

Column: HALO 90 Å Penta-HILIC, 2.7 µm 1.5 x 150 mm

Part Number: 9281X-705

Mobile Phase A: 50mM Ammonium Formate, pH=4.45

Mobile Phase B: ACN

Gradient:	Time	%B
	0.0	80
	25.0	55
	27.0	10
	29.0	10
	31.0	80
	36.0	80

Flow Rate: 0.3 mL/min

Pressure: 251 Bar

Temperature: 60 °C

Detection: UV 300 nm, PDA

Injection Volume: 8.0 µL

Sample Solvent: 20/80 Water/ACN

Data Rate: 100 Hz

Response Time: 0.025 sec.

Flow Cell: 1 µL

LC System: Shimadzu Nexera X2

A labeled dextran ladder is separated on a HALO® 1.5 mm ID Penta-HILIC column. Dextran is a very versatile polysaccharide, offering many uses in the medical field. Polysaccharides do not have any chromophores and this makes them impossible to see through UV detection. By labeling the polysaccharide chains the dextran becomes visible to a PDA or UV detector. By using a HALO® 1.5 mm ID Penta-HILIC column this dextran ladder can be separated with great resolution and sensitivity. The 1.5 mm ID allows for a decrease in sample usage by scaling the injection volume of a sample and a decrease in waste due to lower flow rate compared to larger ID's. Peak identities are labeled by degree of polymerization (DP).

