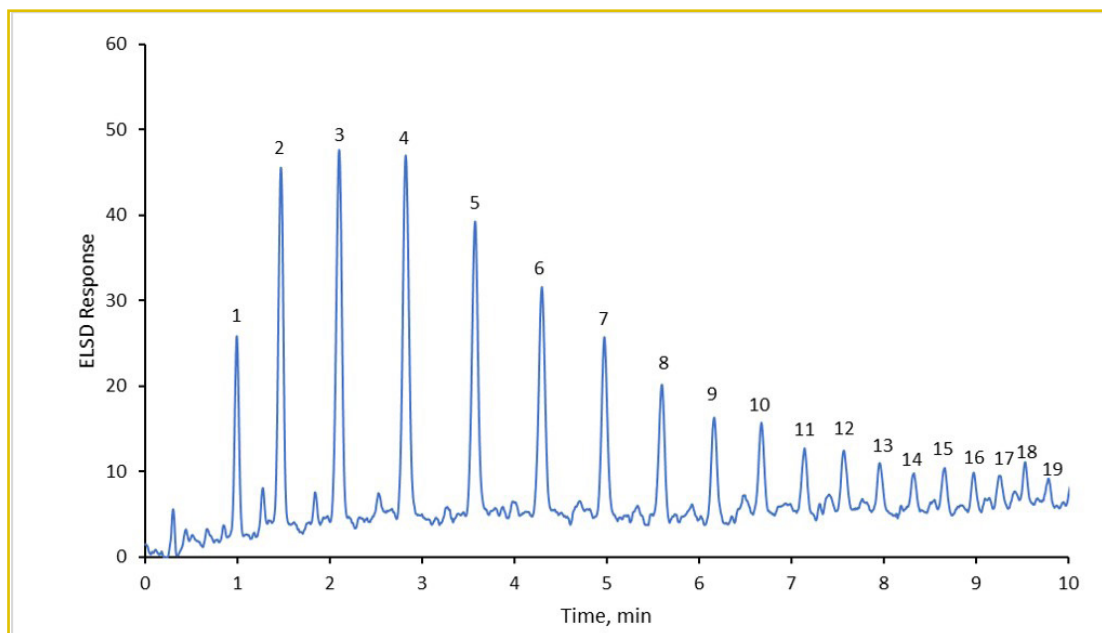




## Fast Separation of Oligosaccharides using HALO 90 Å Penta-HILIC

273-SU



### PEAK IDENTITIES:

1. DP 3
2. DP 4
3. DP 5
4. DP 6
5. DP 7
6. DP 8
7. DP 9
8. DP 10
9. DP 11
10. DP 12
11. DP 13
12. DP 14
13. DP 15
14. DP 16
15. DP 17
16. DP 18
17. DP 19
18. DP 20
19. DP 21

### TEST CONDITIONS:

**Column:** HALO 90 Å Penta-HILIC, 2.7 µm, 4.6 x 50 mm

**Part Number:** 92814-405

**Mobile Phase A:** Water

**Mobile Phase B:** ACN

**Gradient:** 75-55% B in 10 min

**Flow Rate:** 2.0 mL/min

**Pressure:** 105 bar

**Temperature:** 65 °C

**Detection:** ELSD, 40 °C, 3.3 bar

**Injection Volume:** 20 µL

**Sample Solvent:** 70/30 ACN/Water

**Data Rate:** 10 Hz

**Response Time:** 0.10 sec

**LC System:** Shimadzu Nexera X2

The combination of evaporative light scattering detection (ELSD) and a short 50 mm HALO® Penta-HILIC column enables a fast analysis of oligosaccharides in under 10 minutes whereas traditional columns could have analysis times as long as 30 minutes to more than an hour. Using ELSD eliminates the need to label the sugar with either a UV or fluorescent tag, which simplifies the analysis. Peak identities are labeled by degree of polymerization (DP).

