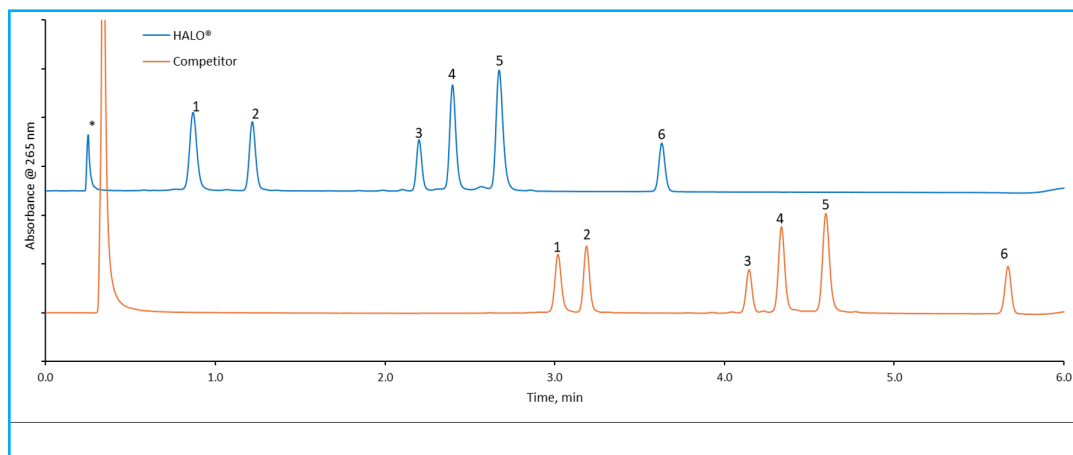




Advantage of Fused-Core® Particle Technology for Oligonucleotide Separations

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TEST CONDITIONS:

Column: HALO 120 Å OLIGO C18, 2.7 µm, 2.1 x 50 mm

Part Number: P2A62-402

Competitor: FPP 120 Å C18, 1.9 µm, 2.1 x 50 mm

Mobile Phase A: 100mM TEAA, pH 7

Mobile Phase B: MeOH

Gradient:	Time	%B
	0.0	17
	5.0	30
	5.3	60
	5.6	60
	5.8	17

PEAK IDENTITIES

1. 20 mer
2. 15 mer
3. 12 mer
4. 25 mer
5. 33 mer
6. 12 mer
- * Tris/EDTA

Flow Rate: 0.4 mL/min

Back Pressure: HALO® - 135 bar

Competitor - 302 bar

Temperature: 50 °C

Injection: 1.0 µL

Sample Solvent: 10mM Tris HCl/1mM EDTA pH=8.0

Wavelength: PDA, 265 nm

Flow Cell: 1 µL

Data Rate: 40 Hz

Response Time: 0.05 sec.

LC System: Shimadzu Nexera X2

The HALO® OLIGO C18 2.7 µm column outperformed an FPP Oligo C18 column in oligonucleotide separations, achieving faster separations while maintaining efficiencies comparable to a 1.9 µm FPP with more than half the backpressure. It also exhibited higher resolution between critical peak pairs (peaks 1-2 and 3-4).

