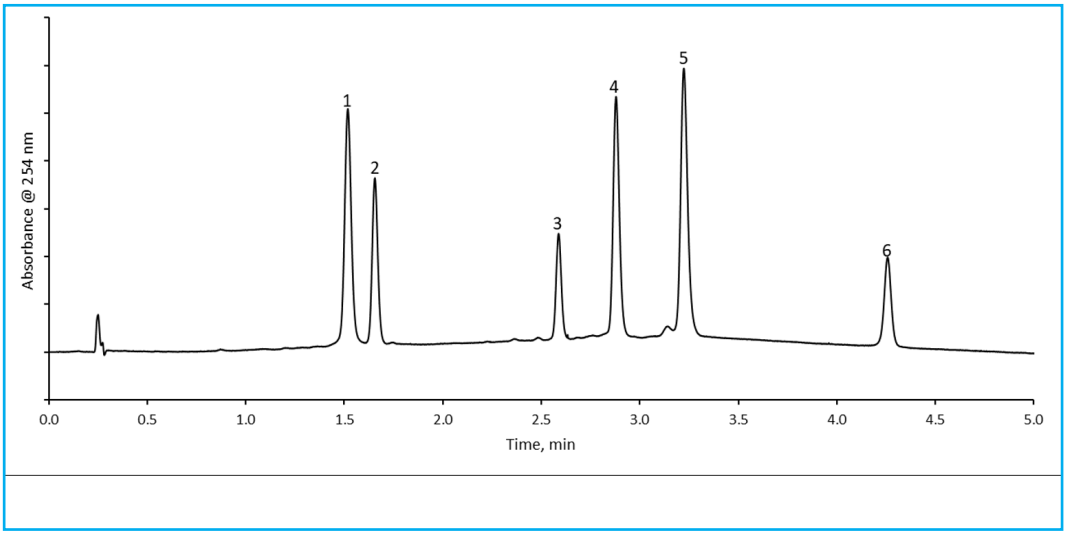
HALO®

BIOPHARMACEUTICALS

Oligonucleotide Performance Mix on OLIGO C18



PEAK IDENTITIES

1. 20 mer
2. 15 mer
3. 12 mer
4. 25 mer
5. 33 mer
6. 12 mer

TEST CONDITIONS:

Column: HALO 120 Å OLIGO C18, 2.7 µm, 2.1 x 50 mm
Part Number: P2A62-402
Mobile Phase: A: 100mM TEAA @ pH 8.5
Mobile Phase B: Acetonitrile
Gradient:

Time	%B
0.0	7.5
5.0	15.0
5.3	60.0
5.6	60.0
8.0	7.5

Flow Rate: 0.4 mL/min
Back Pressure: 142 bar
Temperature: 50 °C
Injection: 1 µL of Oligonucleotide Performance Standard Mix, 12-33 NT P/N: PHR8667-1EA
Sample Solvent: 10mM Tris HCl/ 1mM EDTA
Wavelength: PDA, 254 nm
Flow Cell: 1 µL
Data Rate: 100 Hz
Response Time: 0.05 sec
LC System: Shimadzu Nexera X2

By using the OLIGO C18 column under high pH conditions a sample of 6 different oligonucleotides can be separated in under 5 minutes. Using the SigmaAldrich Oligonucleotide Performance Standard Mix, the utility of the OLIGO C18 column can be explored. The sample has a range of oligomers from 12 to 33 in base length, and two of the six oligomers are the same base length. The two 12 base length oligomers are separated with ease on the HALO® OLIGO C18.

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