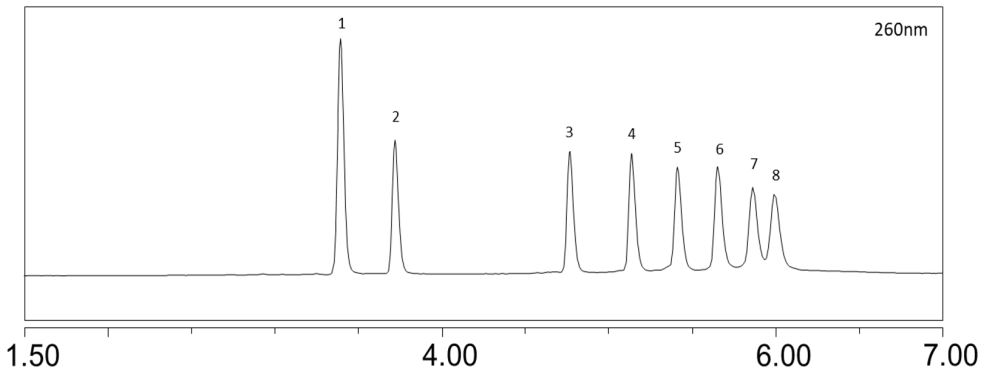
HALO®

BIOPHARMACEUTICALS

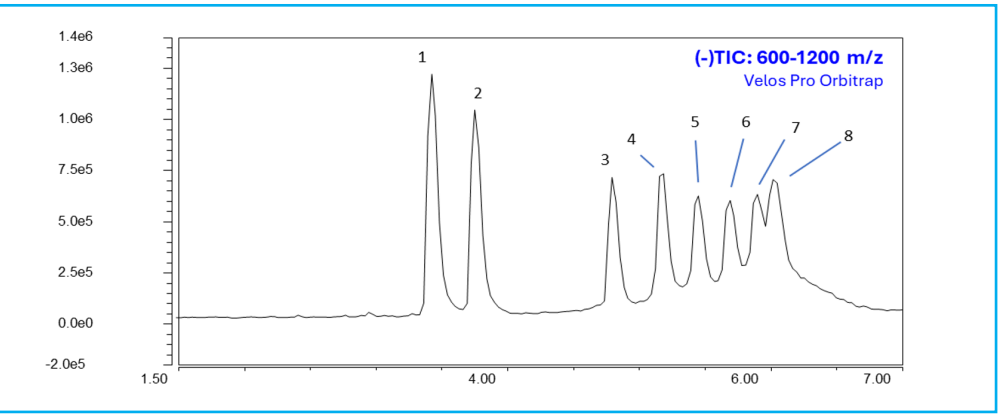
Separation of Oligonucleotide Ladder via LC/MS

371



PEAK IDENTITIES

1. 10 mer
2. 15 mer
3. 20 mer
4. 25 mer
5. 30 mer
6. 40 mer
7. 50 mer
8. 60 mer



TEST CONDITIONS:

Column: : HALO 120 Å OLIGO C18, 2.7 µm, 2.1 x 50 mm
Part Number: P2A62-402
Mobile Phase A: 5mM TEA/50mM HFIP, pH 8.4
Mobile Phase B: Methanol
Gradient:

Time	%B
0.0	5
7.0	18

Flow Rate: 0.4 mL/min
Back Pressure: 106 bar
Temperature: 50 ºC
Injection: 1.0 µL, 10µg on Column
Sample Solvent: 10mM Tris HCl/1mM EDTA pH=8.0
Wavelength: PDA, 260 nm
Flow Cell: 1 µL
Data Rate: 100 Hz
Response Time: 0.025 sec.
LC System: Shimadzu Nexera X2
MS System: Thermo Velos Pro Orbitrap

MS CONDITIONS:

Detection: (-) HESI
Spray Voltage: 2.5 kV
Sheath gas: 35
Aux gas: 10
Capillary temp: 350 °C
Source Heater temp: 300°C
S lens: 60
microscan: 1
max ion time: 200

Using the HALO® OLIGO C18 column, a ladder of oligomers ranging from 10-60 mer in length are separated under LCMS conditions. When running oligonucleotides under MS conditions, the typical triethylammonium acetate buffer must be substituted for a triethylamine/hexafluoroisopropanol buffer. This buffer additive maintains good retention of the sample on the OLIGO column while remaining a safe choice for the mass spectrometry system.

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