HALO®

BIOPHARMACEUTICALS

Separation of Large ssDNA Oligomers on HALO® OLIGO C18

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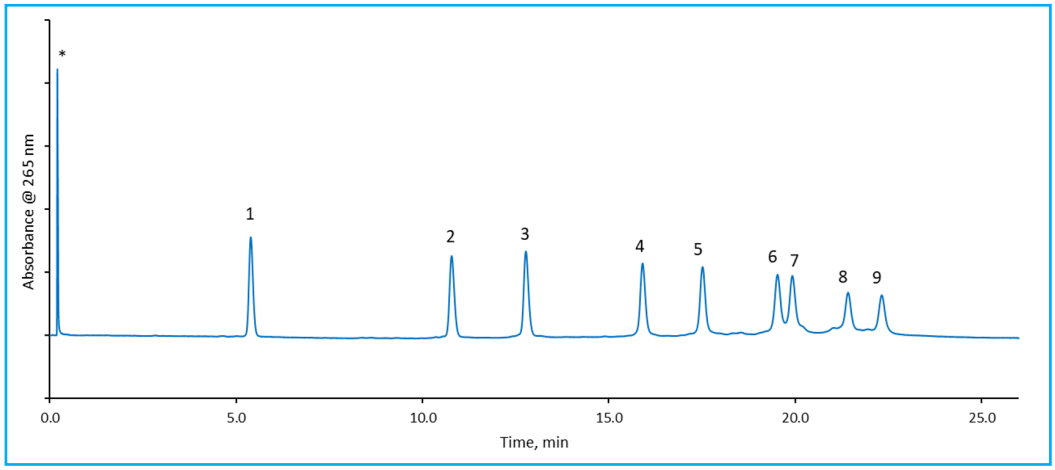

PEAK IDENTITIES

1. 20 mer
2. 30 mer
3. 40 mer
4. 50 mer
5. 60 mer
6. 70 mer
7. 80 mer
8. 90 mer
9. 100 mer

* Tris HCl/EDTA

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 7
Mobile Phase B: Acetonitrile
Gradient:

Time	%B
0.0	6.5
30.0	11
31.0	11
31.1	6.5
35.0	6.5

Flow Rate: 0.5 mL/min
Back Pressure: 144 bar
Temperature: 60 °C
Injection: 2.0 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 OLIGO C18 column with a 120 Å pore size separates a ladder of larger ssDNA nucleotides. Ranging from 20 to 100 bases, each oligonucleotide is separated under IPRP conditions. The oligonucleotide size that can be separated on the HALO® OLIGO C18 depends upon the requirements of the separation. While the OLIGO C18 column excels with smaller oligonucleotides like, antisense strands , it also has the ability to separate larger oligomers like this ssDNA ladder. This increases the diversity of samples that can be analyzed on the HALO® OLIGO C18 column.

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