HALO®

BIOPHARMACEUTICALS

Oligonucleotide Ladder Separation on HALO 1000 Å ES-C18

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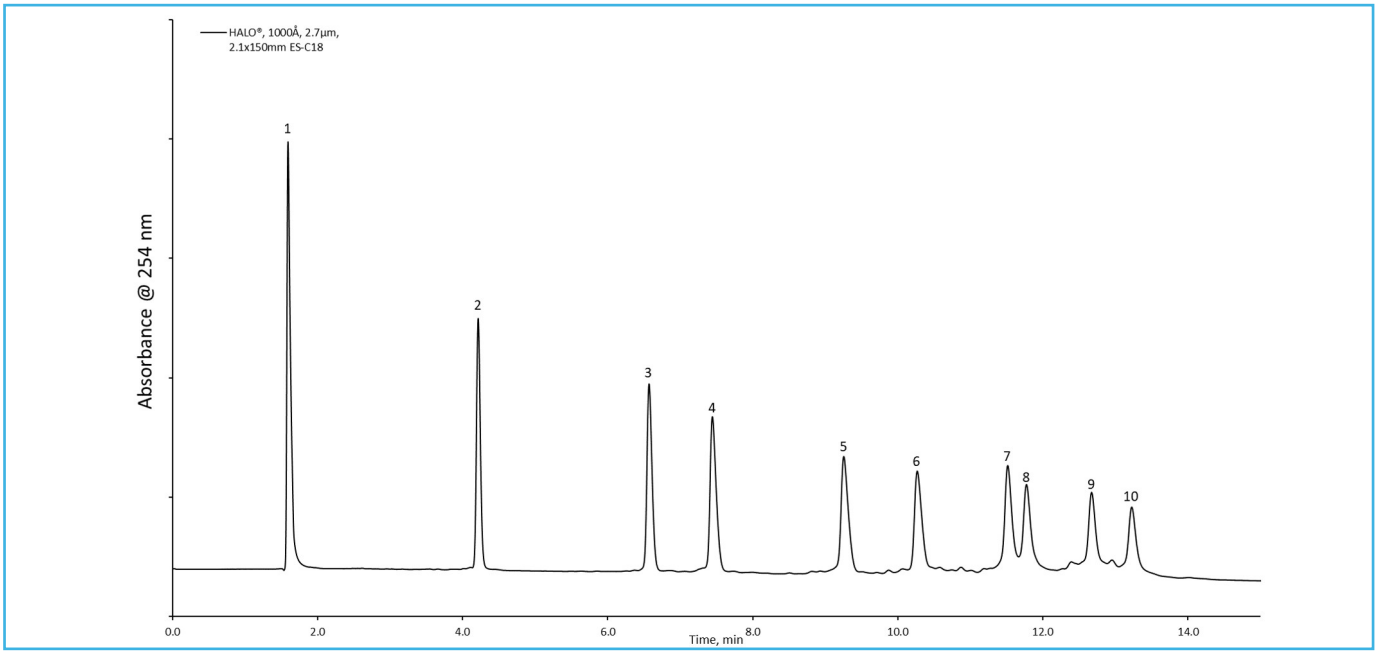

TEST CONDITIONS:

Column: HALO 1000 Å ES-C18, 2.7µm, 2.1 x150 mm
Part Number: 92712-702
Mobile Phase: **A:** 100mM TEAA Buffer, pH 7.0
B: 80/20 A/ACN

Gradient:

Time	%B
0.0	40
20.0	62.5
22.0	100
23.0	100
23.1	40
28.0	40

Flow Rate: 0.2 mL/min
Pressure: 140 bar
Temperature: 60 °C
Detection: 254 nm
Injection Volume: 1 µL
Sample Solvent: 10mM Tris EDTA Buffer
Data Rate: 100 Hz
Response Time: 0.025 sec
Flow Cell: 1 µL
LC System: Shimadzu Nexera X2

A separation of an oligonucleotide ladder is performed on a HALO 1000 Å ES-C18 column. The column shows great retention and resolution of larger oligonucleotides. The 1000 Å pore size allows for better peak shapes of the larger oligonucleotides which elute after the 6 minute mark. The sample was marketed as a oligo ladder from 20 to 100 mer on length which should be 9 peaks. The ladder being separated shows 10 peaks with the extra peak potentially being an impurity or intermediate oligonucleotide.

*We are currently in the process of determining the peak identities of the ladder as well as any impurities or potential extra oligonucleotides within the sample.

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