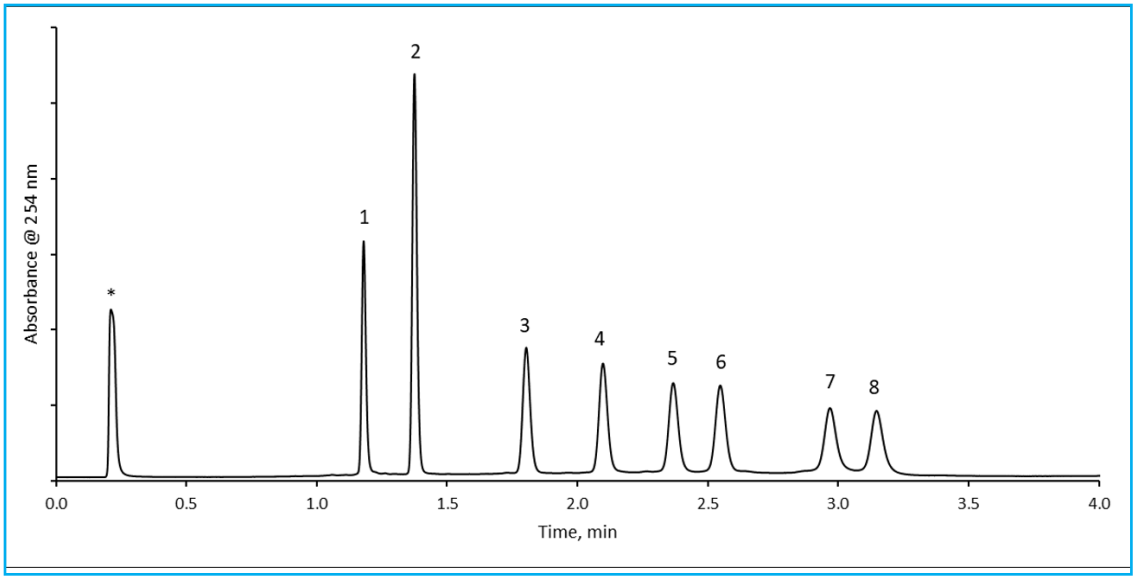
HALO®

BIOPHARMACEUTICALS

Oligonucleotide Ladder via UV Detection

370



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

* 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 8.5
Mobile Phase B: Acetonitrile
Gradient:

Time	%B
0.0	5
0.5	7.4
3.5	10.7
3.6	20
4.1	20
4.2	5
9.0	5

Flow Rate: 0.5 mL/min
Back Pressure: 137 bar
Temperature: 60 ºC
Injection: 2.0 µL, (10µg)
Sample Solvent: 10mM Tris HCl/1mM EDTA pH=8.0
Wavelength: PDA, 254 nm
Flow Cell: 1 µL
Data Rate: 100 Hz
Response Time: 0.025 sec.
LC System: Shimadzu Nexera X2

An oligonucleotide ladder of mixed sequence and length is separated on the HALO® OLIGO C18 column under high pH conditions. The OLIGO column performs well with different ion pairs that are necessary in order to retain the samples. This separation requires the use of triethylammonium acetate in order to retain the oligonucleotides, which is a typical additive for UV detection. The chromatogram shows excellent resolution of the oligomers in under 5 minutes.

AMT_AN_Rev_0

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