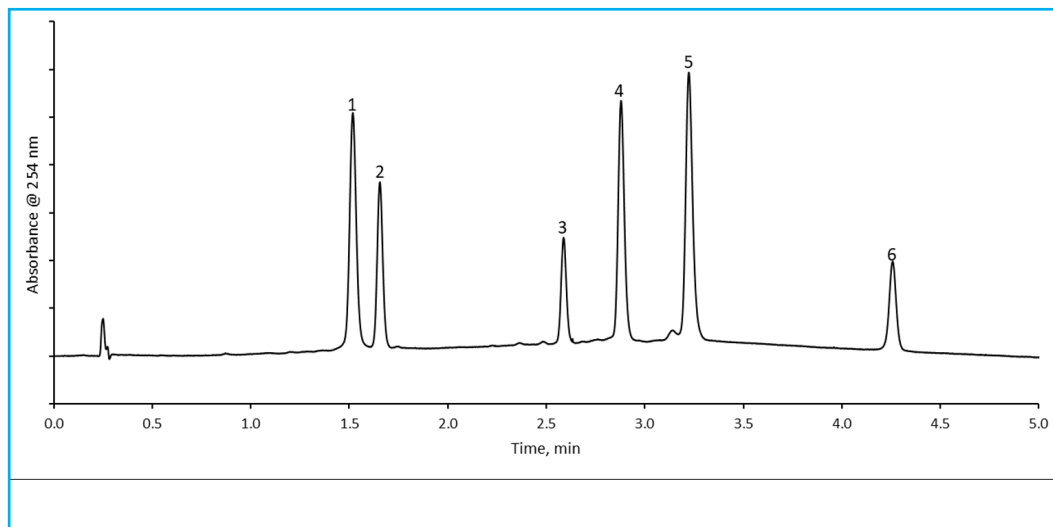




Oligonucleotide Performance Mix on OLIGO C18

375



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.

