GRADIENT SEPARATION OF NUCLEIC ACID BASES ON ACQUITY UPLC BEH HILIC

CLICK ON PART NUMBERS FOR MORE INFORMATION

TEST CONDITIONS

- Column: ACQUITY UPLC® BEH HILIC, 2.1 x 100 mm, 1.7 µm
- Part Number: 186003461
- Mobile Phase A: 20 mM CH₃COONH₄, 0.05% CH₃COOH in 50:40:10 ACN:MeOH:H₂O
- Mobile Phase B: 4 mM CH₃COONH₄, 0.01% CH₃COOH in 95:3:2 ACN:MeOH:H₂O
- Flow Rate: 0.790 mL/min
- Gradient: Time | Profile
  | %A | %B
  0.0 | 0.1 | 99.9
  0.37 | 0.1 | 99.9
  1.7 | 99.9 | 0.1
  1.74 | 0.1 | 99.9
  1.98 | 0.1 | 99.9
- Injection Volume: 0.8 µL
- Sample Concentration: 25 µg/mL
- Sample Diluent: 75:25 ACN:MeOH with 0.2% HCOOH
- Temperature: 30 °C
- Detection: UV @ 254 nm
- Sampling Rate: 20 pts/sec
- Time Constant: 0.1
- Instrument: Waters ACQUITY UPLC with ACQUITY® TUV

COMPOUNDS

1. 5-Fluorouracil
2. Uracil
3. 5-Fluorocytosine
4. Cytosine

5-Fluorouracil

5-Fluorocytosine

Uracil

Cytosine

\[ V_o = 0.336 \]