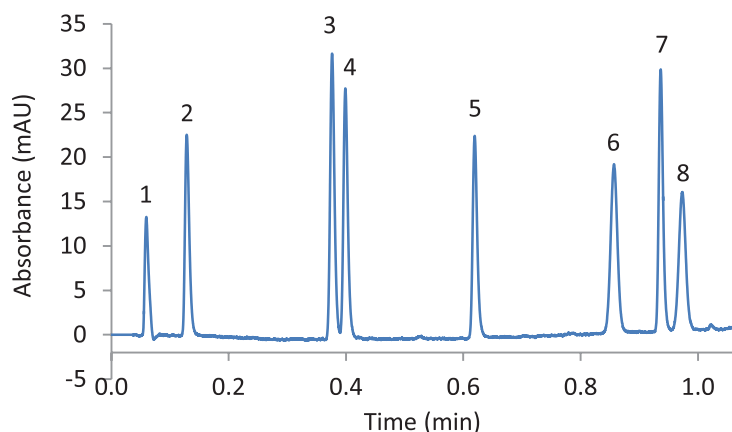




Separation of Anticoagulants Using HALO 90 Å C18, 2.0 µm

Application Note 150-P



PEAK IDENTITIES:

1. Uracil (t_0)
2. 6,7-Dihydroxycoumarin
3. 4-Hydroxycoumarin
4. Coumarin
5. 6-Chloro-4-hydroxycoumarin
6. Warfarin
7. Coumatetralyl
8. Coumachlor

Anticoagulants are used to slow down and even prevent blood coagulation. Here, a HALO 90 Å C18, 2.0 µm column is used to separate a mixture of seven different types of anticoagulant drugs in under 1 minute.

TEST CONDITIONS:

Column: HALO 90 Å C18, 2.0 µm,
2.1 x 30 mm

Part Number: 91812-302

Mobile Phase:

A: 0.02 M formic acid

B: 50/50 acetonitrile/methanol

Gradient: Hold at 20% B until 0.06 min
20-75% B from 0.06-1.06 min

Flow Rate: 1.1 mL/min

Pressure: 430 bar

Temperature: 45 °C

Detection: UV 254 nm, PDA

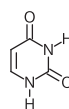
Injection Volume: 0.2 µL

Acquisition Rate: 200 Hz

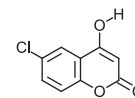
Flow Cell: 1.0 µL

LC System: Shimadzu Nexera X2

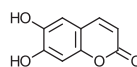
STRUCTURES:



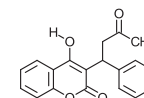
Uracil



6-Chloro-4-hydroxycoumarin



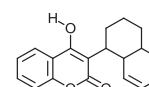
6,7-Dihydroxycoumarin



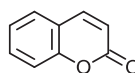
Warfarin



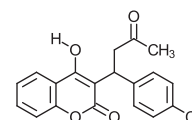
4-Hydroxycoumarin



Coumatetralyl



Coumarin



Coumachlor

