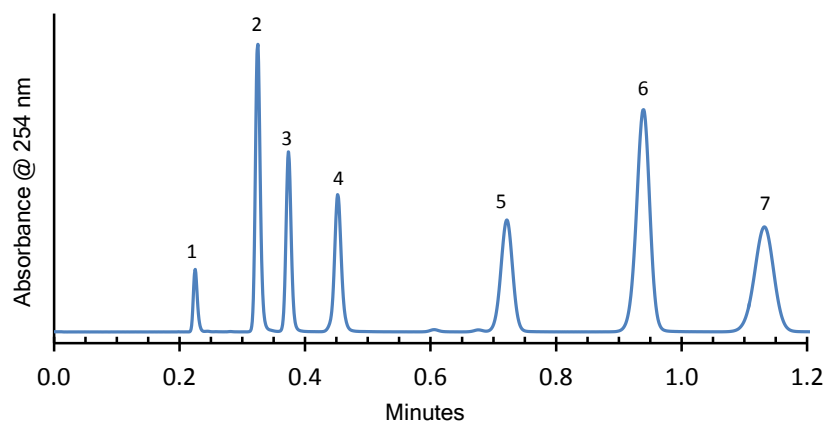


Application Note: 34-P

Rapid HPLC Separation of Anticoagulants on HALO Phenyl-Hexyl Phase



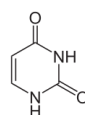
PEAK IDENTITIES:

1. Uracil
2. 4-Hydroxycoumarin
3. Coumarin
4. 6-Chloro-4-hydroxycoumarin
5. Warfarin
6. Coumatetralyl
7. Coumachlor

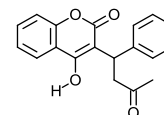
TEST CONDITIONS:

Column: 4.6 x 50 mm, HALO Phenyl-Hexyl
 Part Number: 92814-406
 Mobile Phase: 40/60-A/B
 A= 0.1% Formic acid in water, pH=2.66
 B=Methanol/acetonitrile-50/50
 Flow Rate: 2.0 mL/min.
 Pressure: 215 Bar
 Temperature: 45 °C
 Detection: UV 254 nm, VWD
 Injection Volume: 1.0 µL
 Sample Solvent: 50/50-methanol/acetonitrile
 Response Time: 0.02 sec.
 Flow Cell: 2.5 µL semi-micro
 LC System: Shimadzu Prominence UFLC XR
 Extra column volume: ~14 µL

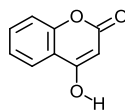
STRUCTURES:



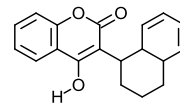
Uracil



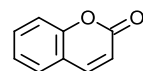
Warfarin



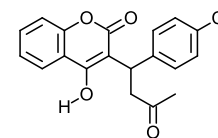
4-Hydroxycoumarin



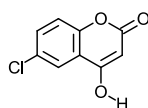
Coumatetralyl



Coumarin



Coumachlor



6-Chloro-4-hydroxycoumarin

Six coumarin derivatives can be easily resolved on this Halo Phenyl-Hexyl column in less than 1.2 minutes at a low backpressure