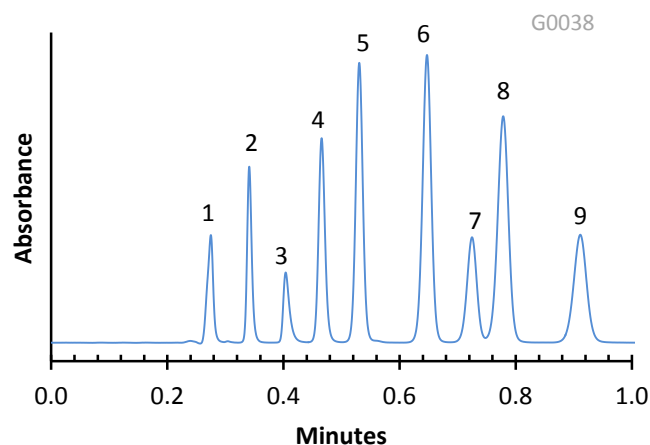


Application Note: 56-NS

Isocratic Separation of NSAIDs on HALO ES-CN Phase



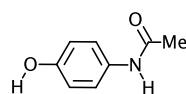
PEAK IDENTITIES:

1. Acetaminophen
2. Aspirin
3. Salicylic acid
4. Tolmetin
5. Naproxen
6. Fenoprofen
7. Ibuprofen
8. Diclofenac
9. Mefenamic acid

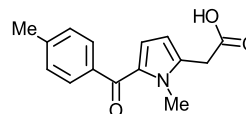
TEST CONDITIONS:

Column: 4.6 x 50 mm, HALO ES-CN
 Part Number: 92814-404
 Mobile Phase: 50/50-A/B
 A= 0.02 M potassium phosphate buffer, pH=2.5
 B=Acetonitrile
 Flow Rate: 2.0 mL/min.
 Pressure: 165 Bar
 Temperature: 35 °C
 Detection: UV 230 nm, VWD
 Injection Volume: 0.5 µL
 Sample Solvent: Water/methanol
 Response Time: 0.02 sec.
 Flow Cell: 2.5 µL semi-micro
 LC System: Shimadzu Prominence UFLC XR
 Extra column volume: ~14 µL

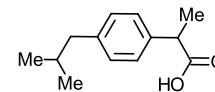
STRUCTURES:



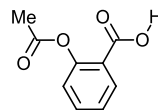
Acetaminophen



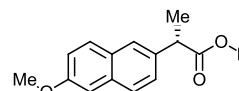
Tolmetin



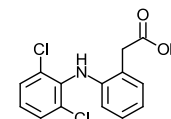
Ibuprofen



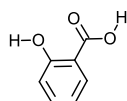
Aspirin



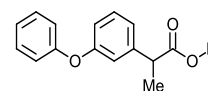
Naproxen



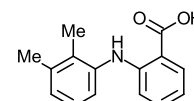
Diclofenac



Salicylic acid



Fenoprofen



Mefenamic acid

This separation illustrates the separating power of HALO Fused-Core stationary phases. Nine NSAID drugs are separated in under one minute on a 50 mm HALO ES-CN column.