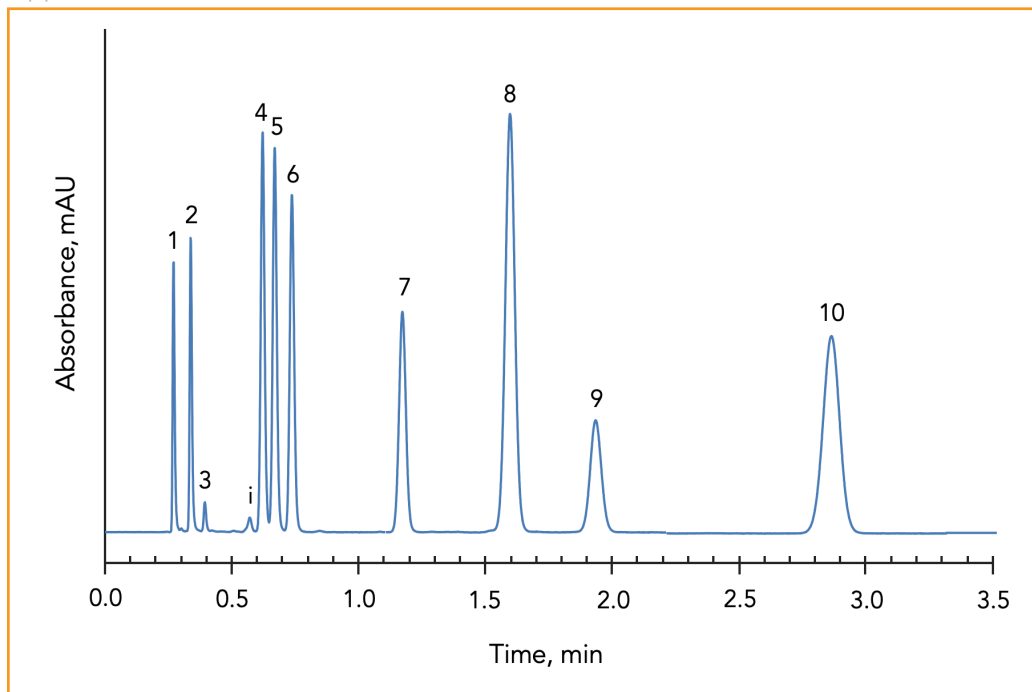




Separation of NSAIDs on HALO® C8

Application Note 15-NS



PEAK IDENTITIES:

1. Acetaminophen
 2. Aspirin
 3. Salicylic acid
 4. Tolmetin
 5. Ketoprofen
 6. Naproxen
 7. Fenopfen
 8. Diclofenac
 9. Ibuprofen
 10. Mefenamic acid
- i = impurity

This isocratic separation of NSAIDs (non-steroidal antiinflammatory drugs) on HALO® C8 phase can be done in less than 3 minutes due to the fast flow rate and high efficiency of the Fused-Core® packing.

TEST CONDITIONS:

Column: HALO 90 Å C8, 2.7 µm,
4.6 x 50 mm

Part Number: 92814-408

Mobile Phase: 35/65 - A/B

A: 0.02 M sodium phosphate buffer, pH 2.5

B: Methanol

Flow Rate: 2.0 mL/min

Pressure: 277 bar

Temperature: 35 °C

Detection: UV 254 nm, VWD

Injection Volume: 1.0 µL

Sample Solvent: Mobile phase

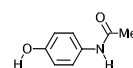
Response Time: 0.02 sec

Flow Cell: 2.5 µL semi-micro

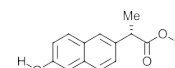
LC System: Shimadzu Prominence UFLC XR

Extra column volume: ~14 µL

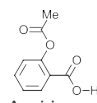
STRUCTURES:



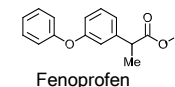
Acetaminophen



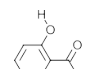
Naproxen



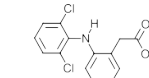
Aspirin



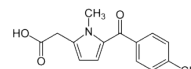
Fenopfen



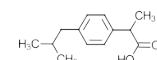
Salicylic acid



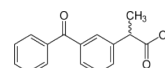
Diclofenac



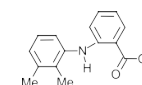
Tolmetin



Ibuprofen



Ketoprofen



Mefenamic acid

