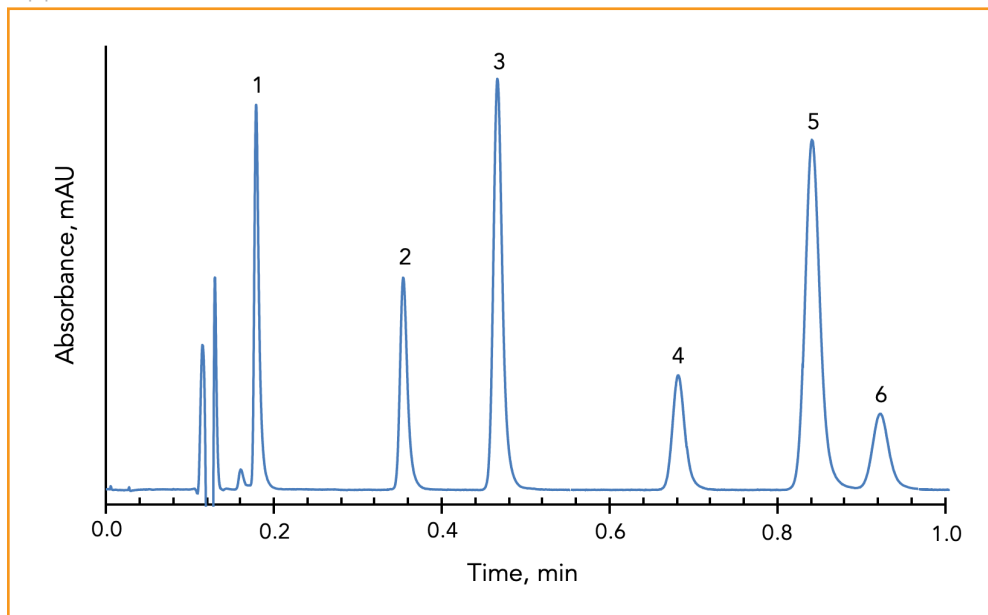




Separation of NSAIDs on HALO® ES-CN, 2.0 µm with MS Compatible Mobile Phase

Application Note 128-NS



PEAK IDENTITIES:

1. Aspirin
2. Tolmetin
3. Naproxen
4. Fenopropfen
5. Ibuprofen
6. Diclofenac

Non-steroidal anti-inflammatory drugs (NSAIDs) are used to treat pain and swelling. These polar drugs can be analyzed on a 2.0 µm HALO® ES-CN column in under a minute using a mass-spec friendly mobile phase.

TEST CONDITIONS:

Column: HALO 90 Å ES-CN, 2.0 µm,
3.0 x 50 mm

Part Number: 91813-404

Mobile Phase: 60/40 - A/B

A: Water with 0.1% formic acid/
10 mM ammonium formate, pH 3.3

B: 80/20 Acetonitrile/water with 0.1%
formic acid/10 mM ammonium formate

Flow Rate: 2.0 mL/min

Pressure: 440 bar

Temperature: 45 °C

Detection: UV 230 nm, PDA

Injection Volume: 1.0 µL

Sample Solvent: Water/methanol

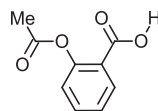
Data Rate: 80 Hz

Response Time: 0.02 sec

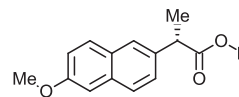
Flow Cell: 2.0 µL micro cell

LC System: Agilent 1200 SL

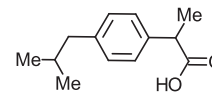
STRUCTURES:



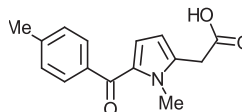
Aspirin



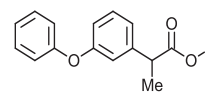
Naproxen



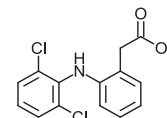
Ibuprofen



Tolmetin



Fenopropfen



Diclofenac

