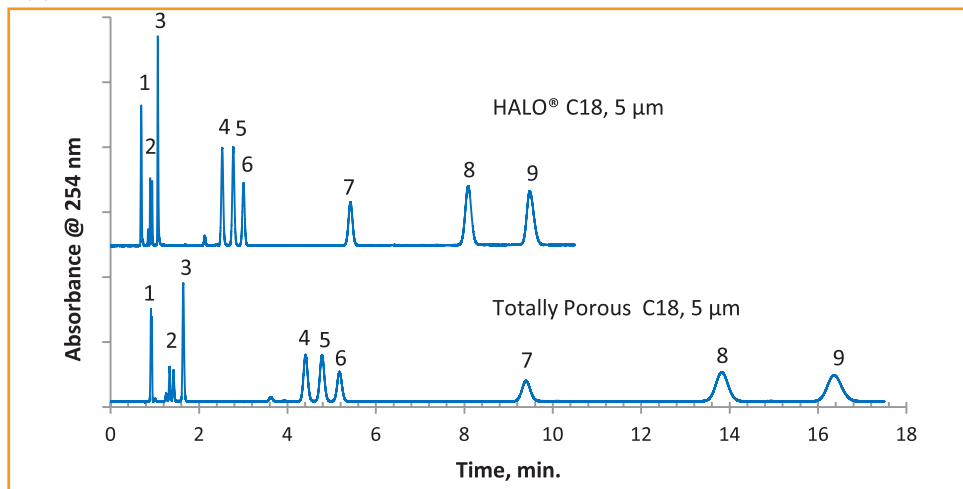




Separation of NSAIDs on HALO® C18, 5.0 µm and Totally Porous C18, 5.0 µm

Application Note 74-NS



PEAK IDENTITIES:

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

The HALO® 5.0 µm column separates this mixture of NSAIDs (non-steroidal anti-inflammatory drugs) in less than 60% of the time and with better resolution than a typical HPLC column packed with totally porous, 5-micron particles.

TEST CONDITIONS:

Columns:

1) HALO 90 Å C18, 5.0 µm, 4.6 x 150 mm

Part number: 95814-702

2) Totally porous C18, 5.0 µm, 4.6 x 150 mm

Mobile Phase: 48/52 - A/B

A: 20 mM potassium phosphate, pH 2.5

B: 50/50 acetonitrile/methanol

Flow Rate: 2.0 mL/min

Pressure: 240 bar (HALO)

215 bar (competitor)

Temperature: 30 °C

Detection: UV 254 nm, VWD

Injection Volume: 2.0 µL

Sample Solvent: 50/50 methanol/water

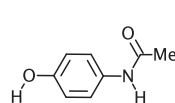
Response Time: 0.02 sec

Flow Cell: 2.5 µL semi-micro

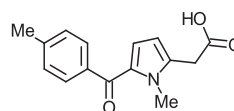
LC System: Shimadzu Prominence UFLC XR

Extra column volume: ~14 µL

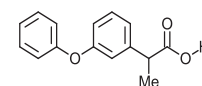
STRUCTURES:



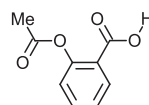
Acetaminophen



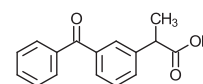
Tolmetin



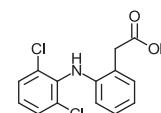
Fenoprofen



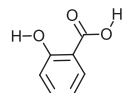
Aspirin



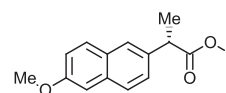
Ketoprofen



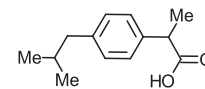
Diclofenac



Salicylic acid



Naproxen



Ibuprofen

