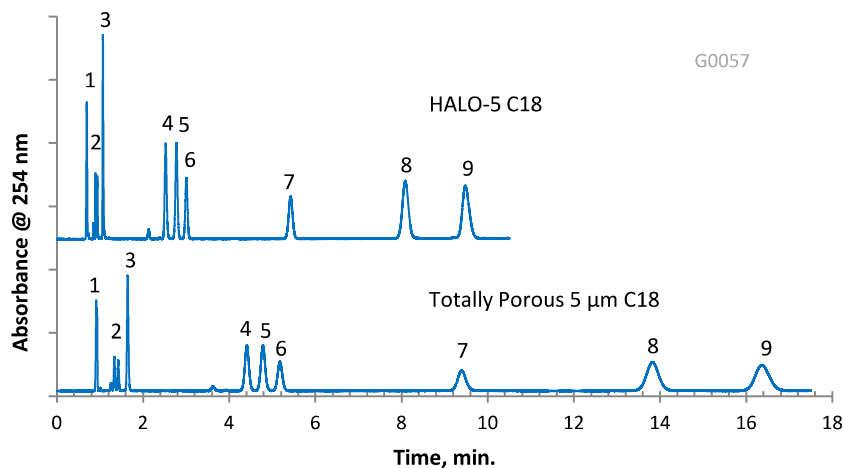


# HALO | Fused-Core® Particle Technology

Application Note: 074-NS

## Separation of NSAIDs on HALO-5 and Totally Porous 5 µm



### PEAK IDENTITIES:

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

### TEST CONDITIONS:

Columns: 4.6 x 150 mm, HALO-5 C18 (Part number: 95814-702) and a 4.6 x 150 mm, 5 µm totally porous C18 column

A = 20 mM Potassium phosphate, pH 2.5

B = 50/50 (v/v) Acetonitrile/methanol

Composition: 48/52: A/B

Flow Rate: 2.0 mL/min.

Pressure: 240 bar on HALO-5 C18

215 bar on totally porous 5 µm

Temperature: 30 °C

Detection: UV 254 nm, VWD

Injection Volume: 2 µL

Sample Solvent: 50:50 Methanol/water

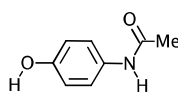
Response Time: 0.02 sec.

Flow Cell: 2.5 µL, semi-micro

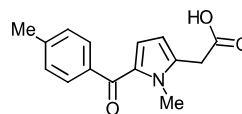
LC System: Shimadzu Prominence UFLC XR

Extracolumn volume: ~14 µL

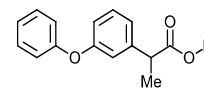
### STRUCTURES:



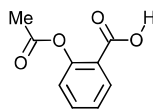
Acetaminophen



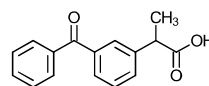
Tolmetin



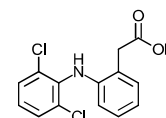
Fenopropfen



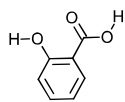
Aspirin



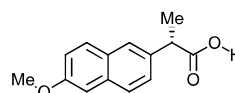
Ketoprofen



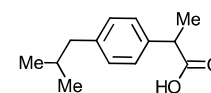
Diclofenac



Salicylic acid



Naproxen



Ibuprofen

The HALO-5 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.



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