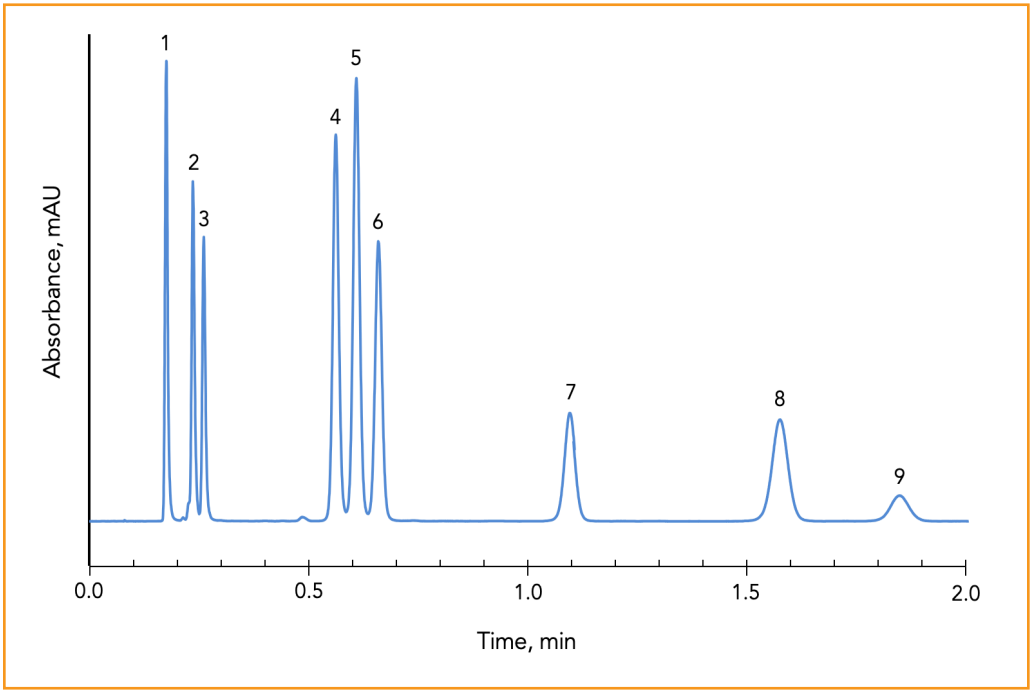
HALO®

PHARMACEUTICALS

Isocratic Separation of NSAIDs on HALO® C18

Application Note 13-NS



PEAK IDENTITIES:

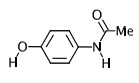
1. Acetaminophen
2. Aspirin
3. Salicylic acid
4. Tolmetin
5. Ketoprofen
6. Naproxen
7. Fenoprofen
8. Diclofenac
9. Ibuprofen

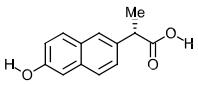
Non-steroidal antinflammatory drugs (NSAIDs) are commonly used for reduction of pain and inflammation. Here, a mixture of methanol and acetonitrile allow a better isocratic separation of this mixture than either solvent by itself as the modifier.

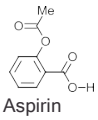
TEST CONDITIONS:

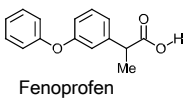
Column: HALO 90 Å C18, 2.7 µm, 4.6 x 50 mm
Part Number: 92814-402
Mobile Phase: 43/57 - A/B
A: 0.02 M sodium phosphate buffer, pH 2.5
B: 50/50 methanol/ACN
Flow Rate: 3.0 mL/min
Pressure: 338 bar
Temperature: 35 °C
Detection: UV 254 nm, VWD
Injection Volume: 1.0 µL
Sample Solvent: 50/50 methanol/water
Response Time: 0.02 sec
Flow Cell: 2.5 µL semi-micro
LC System: Shimadzu Prominence UFLC XR
Extra column volume: ~14 µL

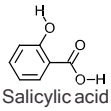
STRUCTURES:

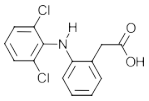

Acetaminophen

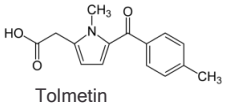

Naproxen

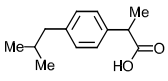

Aspirin

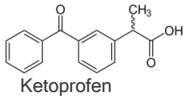

Fenoprofen


Salicylic acid


Diclofenac


Tolmetin


Ibuprofen


Ketoprofen

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