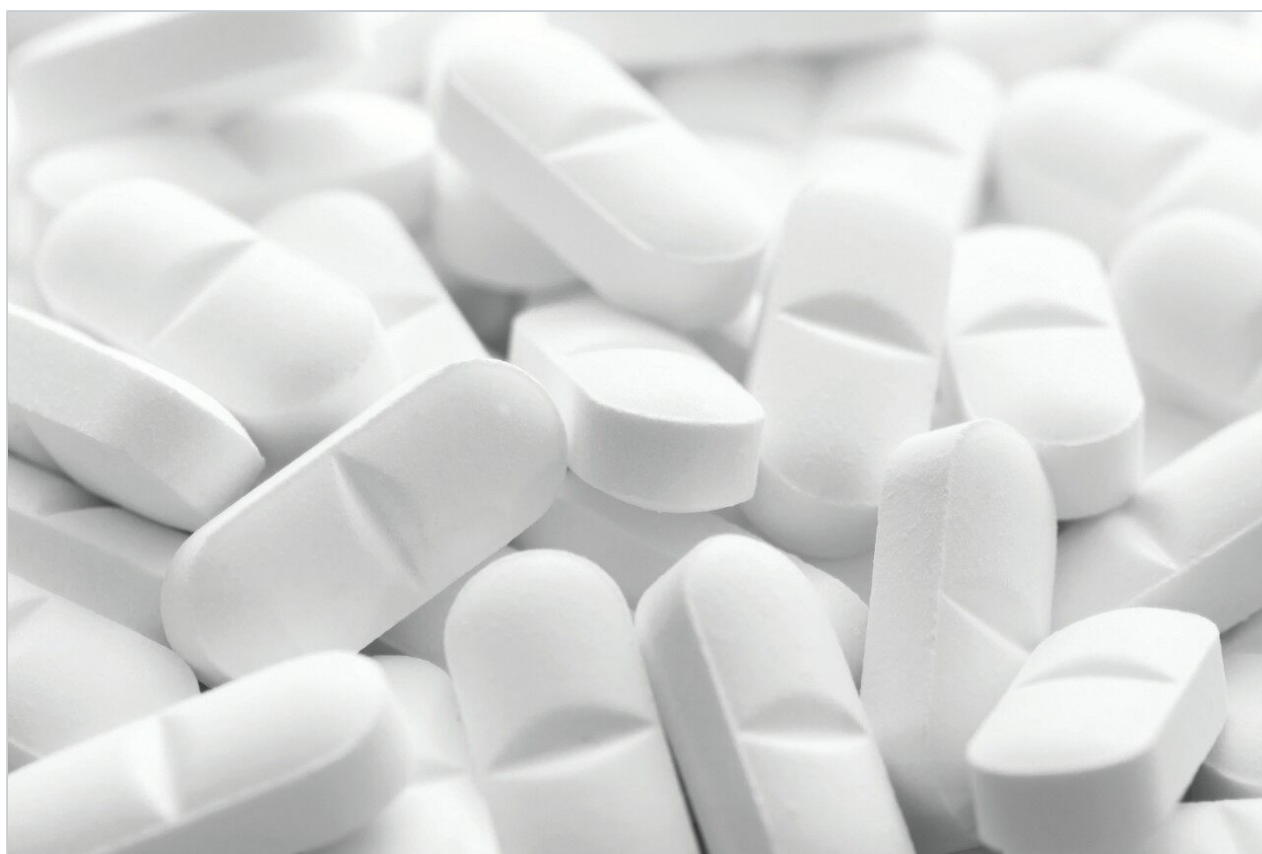


Application Note

Analysis of Non-Steroidal Inflammatory Drugs (NSAIDs) Using XBridge Phenyl

Waters Corporation

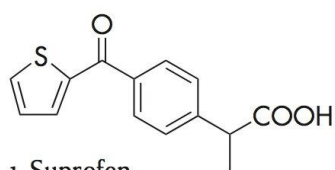


This is an Application Brief and does not contain a detailed Experimental section.

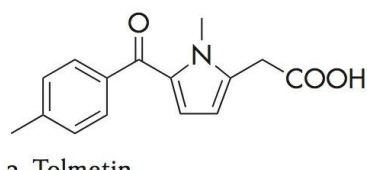
Abstract

This application brief highlights the analysis of non-steroidal inflammatory drugs using XBridge Phenyl columns.

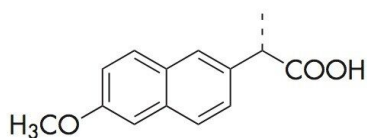
Introduction



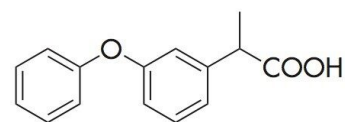
1. Suprofen



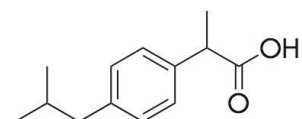
2. Tolmetin



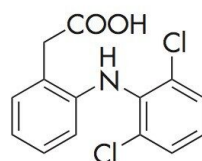
3. Naproxen



4. Fenoprofen



5. Ibuprofen



6. Diclofenac

Experimental

Test Conditions

Columns:

XBridge Phenyl, 4.6 x 100 mm, 3.5 μ m p/n:
186003334

Mobile phase A:

H₂O

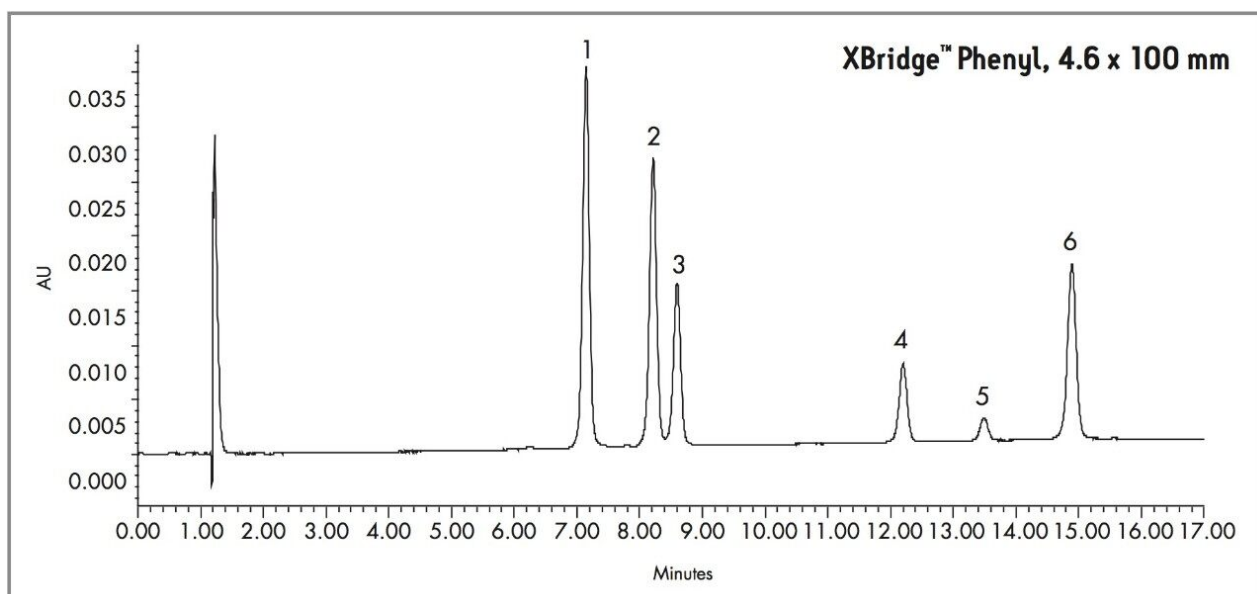
Mobile phase B:	MeOH
Mobile phase C:	0.2% HCOOH in H ₂ O
Flow rate:	1.0 mL/min
Injection volume:	15 µL
Sample:	Fenoprofen (50 µg/mL), Ibuprofen (20 µg/mL), Diclofenac (10 µg/mL), Tolmetin (10 µg/mL), Suprofen (10 µg/mL), Naproxen (10 µg/mL) in H ₂ O/MeOH (60/40)
Column temp.:	30 °C
Sampling temp.:	15 °C
Detection:	UV @ 254 nm
Sampling Rate:	5 points/sec
Filter Response:	0.2
Instrument:	Alliance 2695 with 2996 PDA

Gradient

Time(min)	%A	%B	%C
13.33	25	65	10
16.67	25	65	10
17.33	40	50	10

Time(min)	%A	%B	%C
20.00	40	50	10

Results and Discussion



Compounds: 1. Suprofen 2. Tolmetin 3. Naproxen 4. Fenoprofen 5. Ibuprofen 6. Diclofenac.

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Alliance HPLC <<https://www.waters.com/514248>>

WA60185, June 2007

