

응용 자료

## Profens, Isocratic – 4.6 x 20 mm Intelligent Speed Separation Columns

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Waters Corporation



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

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### Abstract

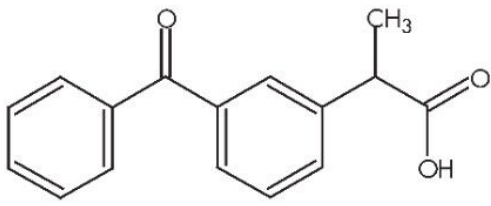
This application brief demonstrates analysis of Profens.

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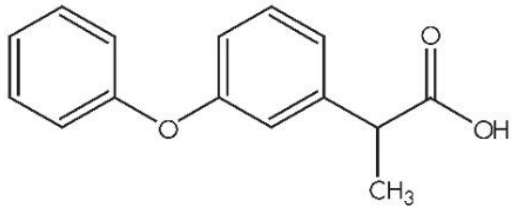
## Introduction

The compounds analyzed in this study are:

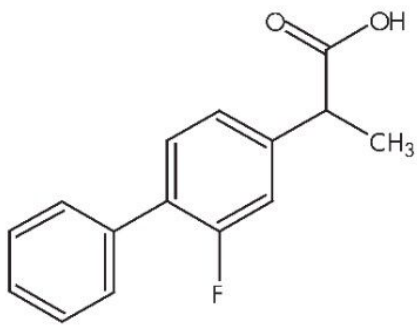
1. Ketoprofen
2. Fenoprofen
3. Flurbiprofen
4. Ibuprofen



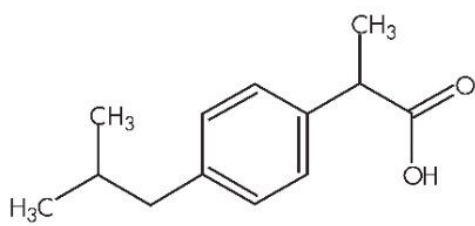
Ketoprofen



Fenoprofen



Flurbiprofen



Ibuprofen

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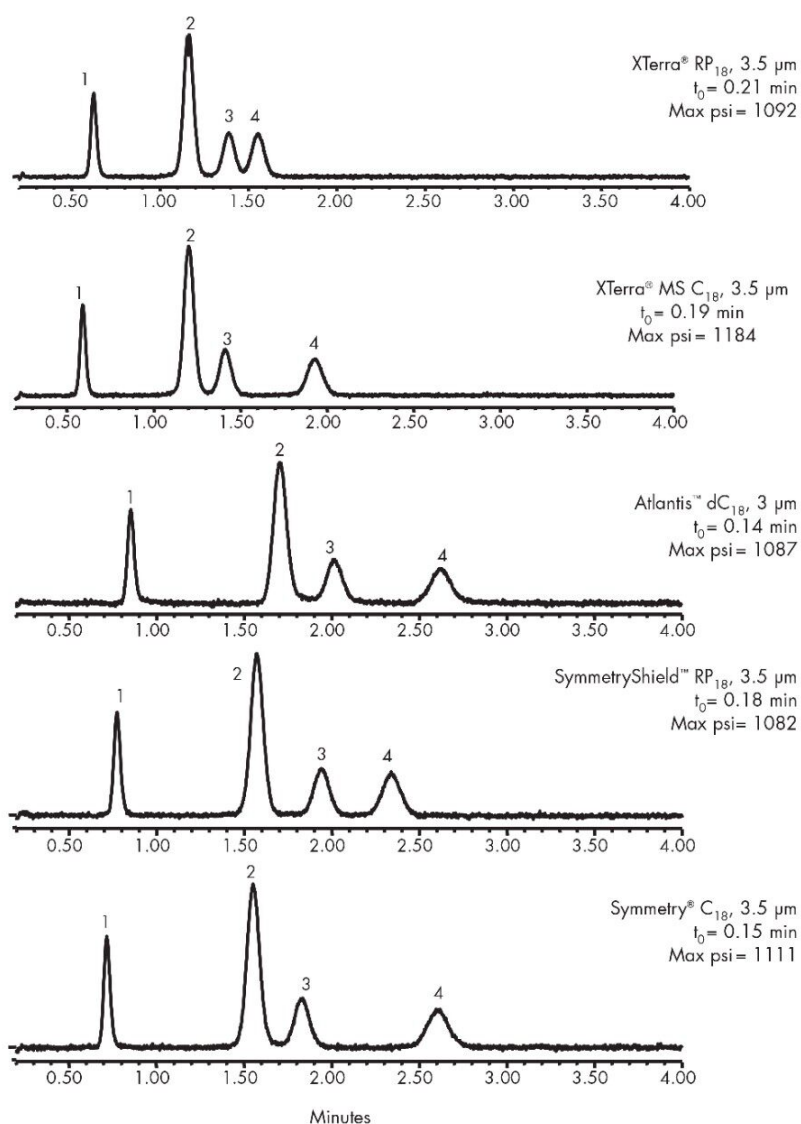
Experimental

## Conditions

|                                    |                                                                                                                                                                                                                                                                                                                                                                                                 |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Columns:                           | XTerra RP <sub>18</sub> , 4.6 x 20 mm IS, 3.5 µm,<br>(P/N:186001893)<br><br>XTerra MS C <sub>18</sub> , 4.6 x 20 mm IS, 3.5 µm,<br>(P/N:186001891)<br><br>Atlantis dC <sub>18</sub> , 4.6 x 20 mm IS 3 µm,<br>(P/N:186002062)<br><br>Symmetry Shield RP <sub>18</sub> , 4.6 x 20 mm IS, 3.5 µm,<br>(P/N:186002092)<br><br>Symmetry C <sub>18</sub> , 4.6 x 20 mm IS, 3.5 µm,<br>(P/N:186002090) |
| Mobile phase A:                    | 0.1% HCOOH in Water                                                                                                                                                                                                                                                                                                                                                                             |
| Mobile phase B:                    | 0.1% HCOOH in Acetonitrile                                                                                                                                                                                                                                                                                                                                                                      |
| Flow rate:                         | 3.0 mL/min                                                                                                                                                                                                                                                                                                                                                                                      |
| Isocratic mobile phase conditions: | 65% A, 35% B                                                                                                                                                                                                                                                                                                                                                                                    |
| Injection volume:                  | 10 µL                                                                                                                                                                                                                                                                                                                                                                                           |
| Sample concentration:              | 20 µg/mL                                                                                                                                                                                                                                                                                                                                                                                        |
| Temperature:                       | 30 °C                                                                                                                                                                                                                                                                                                                                                                                           |
| Detection:                         | UV @ 220 nm                                                                                                                                                                                                                                                                                                                                                                                     |
| Instrument:                        | Alliance 2695 with 996 PDA                                                                                                                                                                                                                                                                                                                                                                      |

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## Results and Discussion



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## Featured Products

Alliance HPLC System <<https://www.waters.com/534293>>

2998 Photodiode Array (PDA) Detector <<https://www.waters.com/1001362>>

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