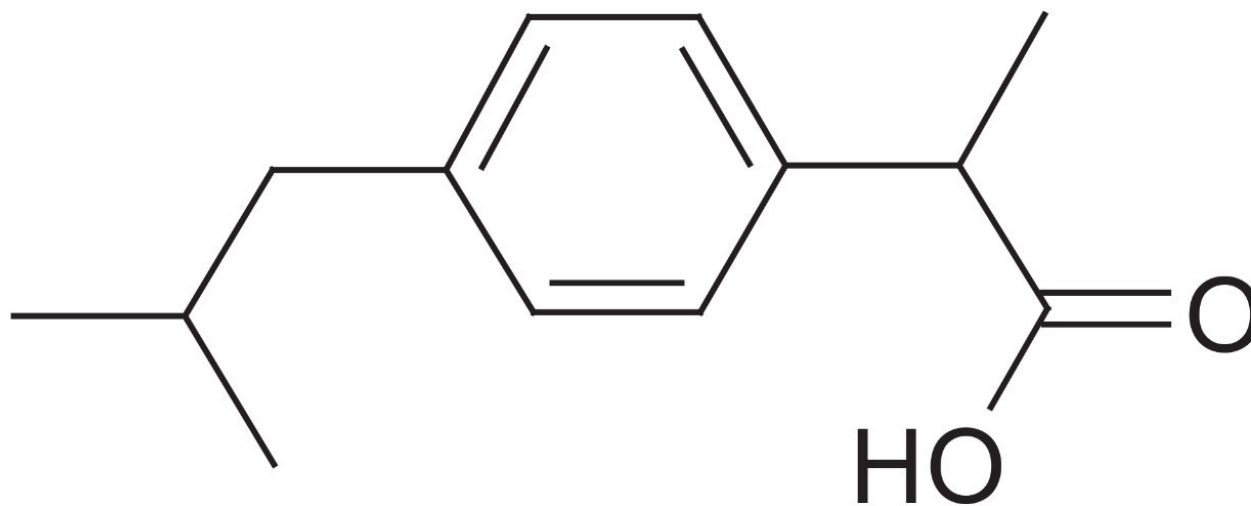# Waters™

Ibuprofen

Waters Corporation

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

Abstract

This application brief highlights the analysis of ibuprofen using XTerra Columns.

Introduction

The compound analyzed in this study is ibuprofen.

Ibuprofen

Experimental

Conditions

Column:	XTerra RP$_{18}$ 4.6 x 150 mm, 5 µm
Part number:	186000492
Mobile phase:	pH 3.0: H$_2$O/ACN/100 mM NH$_4$COOH, pH 3.0 20:70:10

pH 7.0: H_2O/ACN/100 mM NH_4HCO_3, pH 7.0
50:40:10

pH 10.0 H_2O/ACN/100 mM NH_4HCO_3, pH 10.0
67:23:10

Flow rate:	1.0 mL/min
Injection volume:	5 µL of 250 µg/mL
Temperature:	30 °C
Detection:	UV @ 228 nm
Instrument:	Alliance 2695, 2996 PDA

Mobile Phase pH	USP Tailing
3.0	1.17
7.0	1.25
10.0	1.39

Results and Discussion
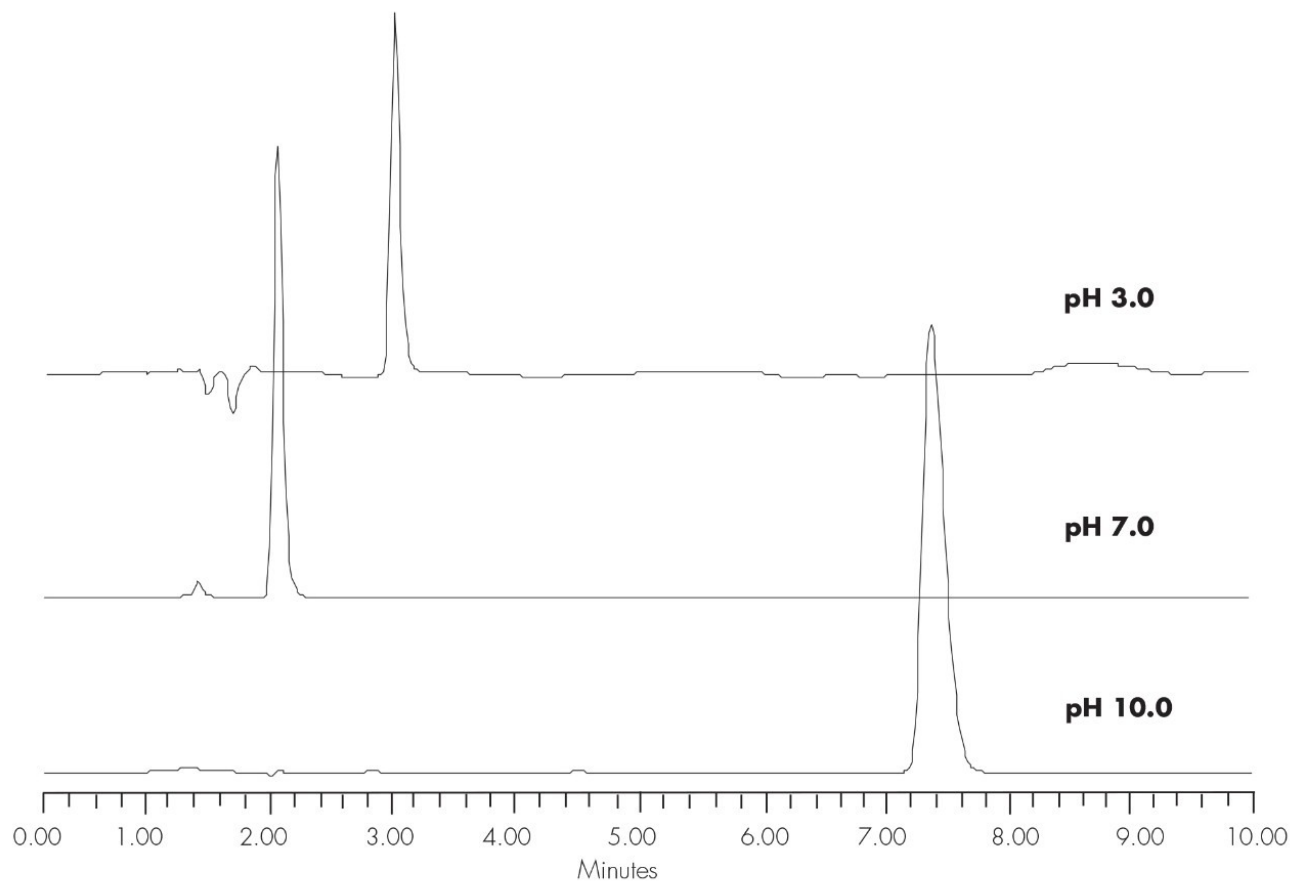
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- [2998 Photodiode Array (PDA) Detector <https://www.waters.com/1001362>](https://www.waters.com/1001362)

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