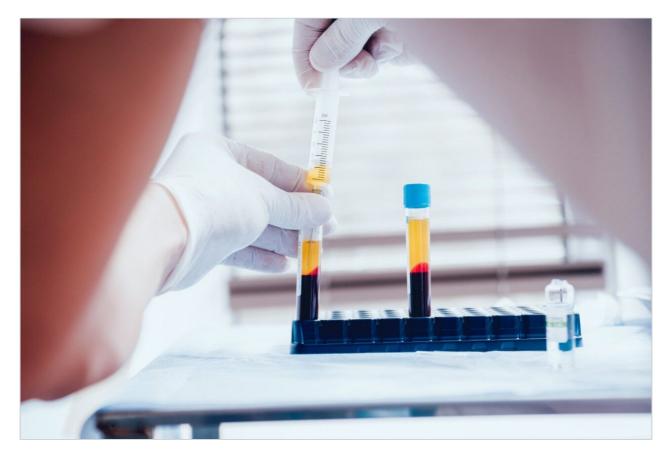
# Waters™

Note d'application

# Diclofenac in Rat Plasma

Waters Corporation



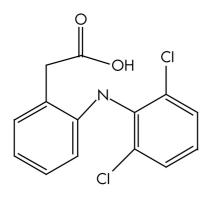
This is an Application Brief and does not contain a detailed Experimental section.

### Abstract

This application brief highlights the analysis of diclofenac using XTerra MS  $C_{18}$  columns.

## Introduction

Diclofenac in rat plasma has been analyzed in this study.





## Experimental

#### **HPLC** Conditions

Column:	XTerra MS C <sub>18</sub> 2.1 x 30 mm, 3.5 µm (p/n: 186000398)
Mobile phase A:	0.05% HCOOH
Mobile phase B:	ACN
Isocratic mobile phase composition:	60% A; 40% B
Flow rate:	0.2 mL/min
Injection volume:	50 µL

Detection:	MS ESI-
Instrument:	Alliance 2790, Micromass Quattro Ultima

### **MS** Conditions

Ion source:	ESI-
Source temp.:	150 °C
Gas cell:	1.5e <sup>-3</sup> mbar, 12 eV
Desolvation temp.:	350 °C
Cone gas flow:	150 L/hr
Drying gas flow:	600 L/hr
Cone voltage:	30 V

Oasis® MAX Extraction Method Oasis® MAX Extraction Plate, 10 mg/96-well Part Number 186000375

> Centrifuge 25 mL of EDTA rat plasma at 10 000 ( RPM )

Spike 5 mL of centrifuged plasma with drug (max 5% organic load) Add 100 µL H<sub>3</sub>PO<sub>4</sub>

> Condition plate 500 µL methanol followed with 500 µL water

Load plate 500 µL spiked rat plasma

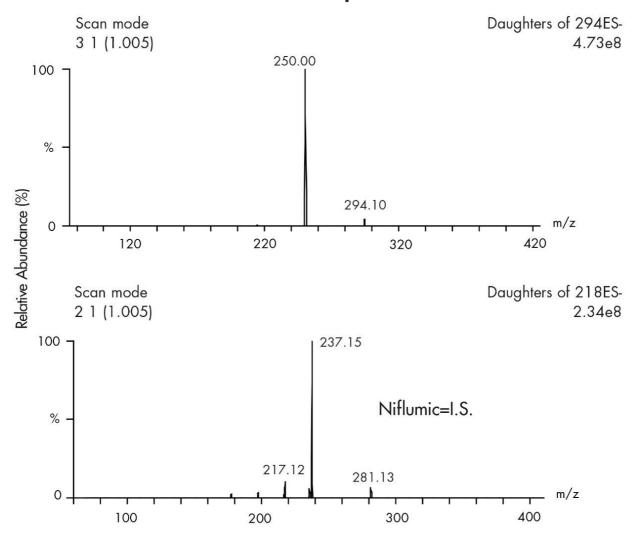
Wash plate 500 µL 2 % NH<sub>4</sub>OH in water

Elute plate 300 µL 5% HCOOH in methanol

> Dilute 200 µL water

**Results and Discussion** 

**CID** mass spectra



### Featured Products

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

WA20738.037, June 2002

© 2021 Waters Corporation. All Rights Reserved.