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Application Note

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.

Diclofenac

Experimental

HPLC Conditions

Column:	XTerra MS C_{18} 2.1 x 30 mm, 3.5 μ m (p/n:
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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

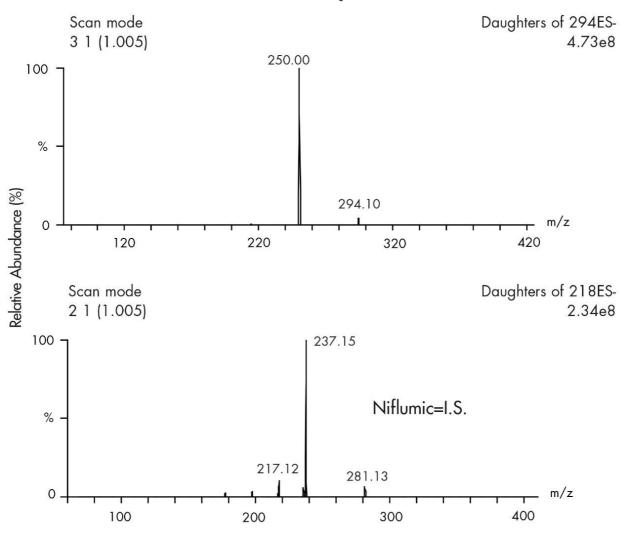
Injection volume: 50 μ L

Detection:	MS ESI-
Instrument:	Alliance 2790, Micromass Quattro Ultima
MS Conditions	
Ion source:	ESI-
Source temp.:	150 °C
Gas cell:	1.5e ⁻³ 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 H3PO4 Condition plate 500 µL methanol followed with 500 µL water Load plate 500 µL spiked rat plasma Wash plate $500 \, \mu L \, 2 \, \% \, NH_4OH \, in \, water$ Elute plate 300 µL 5% HCOOH in methanol Dilute 200 µL water





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