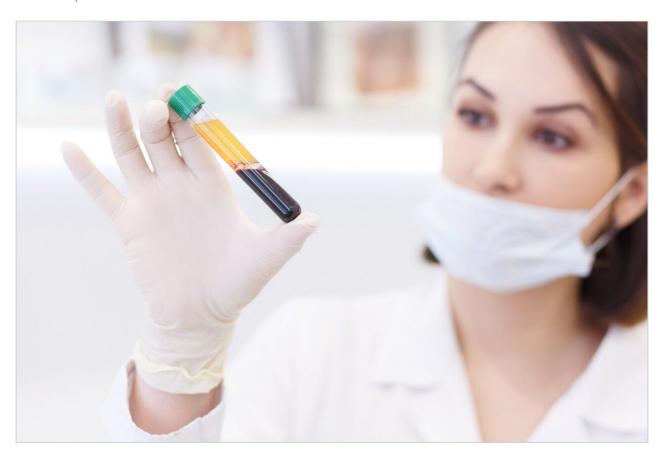
Waters™

Application Note

Oxybutynin 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 oxybutynin using XTerra MS C_{18} columns.

Introduction

Oxybutynin in rat plasma has been studied in this application brief.

Oxybutynin

Experimental

HPLC Conditions

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

186000398)

Mobile phase A: 1.0% NH₄OH

Mobile phase B: ACN

Isocratic mobile phase composition: 45% A; 55% B

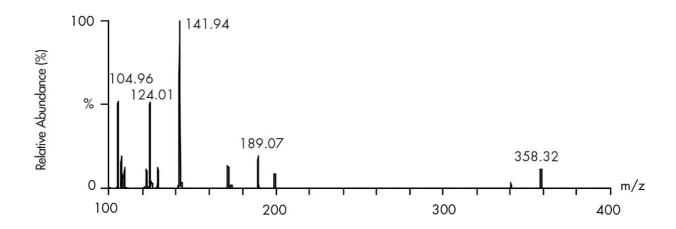
Flow rate:	0.2 mL/min
Injection volume:	30 µL
Detection:	MS ESI+
Instrument:	Alliance 2790, Micromass Quattro Ultima
MS Conditions	
Ion source:	ESI+
Source temp.:	150 °C
Gas cell:	1.5e ⁻³ mbar, 25 eV
Desolvation temp.:	350 °C
Cone gas flow:	150 L/hr
Drying gas flow:	600 L/hr
Cone voltage:	30 V

Oasis® MCX Extraction Method
Oasis® MCX Extraction Plate, 10 mg/96 well
Part Number 186000259

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 (Oxybutynin is base sensitive) Condition plate 500 µL methanol followed with 500 µL water Load plate 500 µL spiked rat plasma Wash plate 500 µL 2% HCl in water Elute plate $300 \, \mu L \, 5\% \, NH_4OH \, in \, methanol$ Dilute 200 µL water 10 % Formic Acid in water

CID mass spectra





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