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Application Note

Salbutamol in Rat Plasma

Waters Corporation



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

Abstract

This application brief demonstrates analysis of salbutamol in rat plasma.

Introduction

The compound analyzed in this study is salbutamol in rat plasma.

$$HO$$
 HO
 CH_3

Salbutamol

Experimental

Isocratic mobile phase composition:

Conditions

Flow rate:

Column:	Xterra MS C_{18} 2.1 x 30 mm, 3.5 μm
Part number:	186000398
Mobile phase A:	100 mM NH ₄ COOH
Mobile phase B:	ACN

70% A; 30% B

0.2 mL/min

Injection volume:	50 μL
Detection:	MS ESI+
Instrument:	Alliance 2790, Micromass Quattro Ultima
Ion source:	ESI+
Source temperature:	150 °C
Gas cell:	1.5e-3 mbar, 15eV
Desolvation temperature:	350 °C
Cone gas flow:	150 L/hr
Drying gas flow:	600 L/hr
Cone voltage:	20V

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

> Condition plate 500 µL methanol followed with 500 µL water

Load plate 500 µL spiked rat plasma

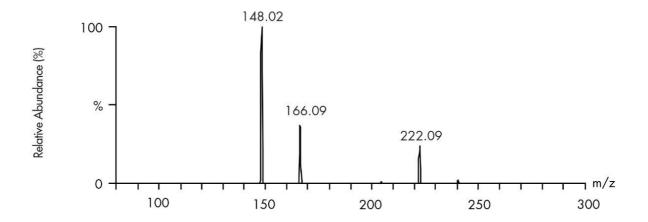
Wash plate 500 µL 2 % HCl in water

Elute plate 300 µL 5% NH4OH in methanol

> Dilute 200 µL water

CID mass spectra





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