

Application Note

Propranolol in Rat Plasma

Waters Corporation



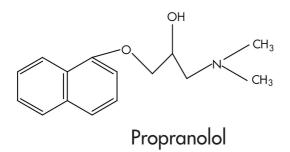
This is an Application Brief and does not contain a detailed Experimental section.

Abstract

This application brief highlights the analysis of propranolol in Rat plasma using XTerra C₁₈ columns.

Introduction

Propranolol in rat plasma has been analyzed in this application brief.



Experimental

Conditions

Column:	XTerra MS C ₁₈ 2.1 x 30 mm, 3.5 µm (p/n: 186000398)
Mobile phase A:	1.0% NH ₄ OH
Mobile phase B:	ACN
Isocratic mobile phase composition:	50% A; 50% B
Flow rate:	0.2 mL/min
Injection volume:	50 mL
Detection:	MS ESI+
Instrument:	Alliance 2790, Micromass Quattro Ultima

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:	20 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

> 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% NH_4OH in methanol

Dilute 200 µL water

Results and Discussion

CID mass spectra infuse cid 20 Daughters of 260ES+ 4 1 (1.005) 1.27e8 100 116.03 183.04 % 98.26 260.17 157.05 Relative Abundance (%) m/z 0 200 150 250 100 IS daughter of 271.0 Daughters of 271ES+ 89 (1.657 (1.199) 9.73e4 140.15 100 nordazepam=I.S. % 91.30 165.05 208.09 ד/m ר 0 250 300 100 150 200

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