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アプリケーションノート

Chlorpromazine 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 chlorpromazine using XTerra MS C_{18} columns.

Introduction

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

Chlorpromazine

Experimental

HPLC Conditions

Injection volume:

Column:	XTerra MS C ₁₈ 2.1 x 30 mm, 3.5 μm (p/n: 186000398)
Mobile phase A:	0.2% NH ₄ OH
Mobile phase B:	ACN
Flow rate:	0.2 mL/min
Isocratic mobile phase composition:	40% A; 60% B

Detection: MS ESI-

Instrument: Alliance 2790, Micromass Quattro Ultima

20 μL

MS Conditions

Ion source: ESI+

Source temp.: 150 °C

Gas cell: 1.5e⁻³ mbar, 20 eV

Desolvation temp.: 350 °C

Cone gas flow: 150 L/hr

Drying ga flow: 600 L/hr

Cone voltage: 40 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

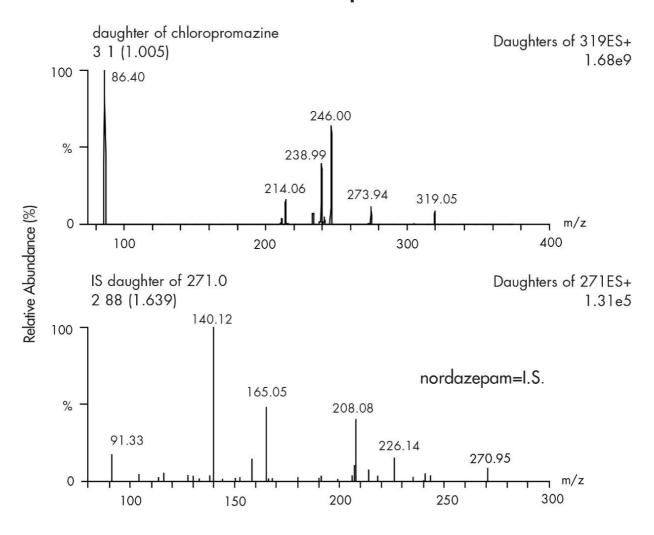
Load plate 500 µL spiked rat plasma

Wash plate 500 µL 2 % HCl in water

Elute plate 300 µL 5% NH4OH in methanol

> Dilute 200 µL water

CID mass spectra



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