Waters[™]

Chlorpromazine in Rat Plasma

Waters Corporation



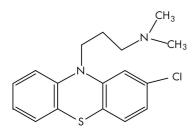
This is an Application Brief and does not contain a detailed Experimental section.

Abstract

This application brief highlights the analysis of chlorpromazine using XTerra MS C₁₈ columns.

Introduction

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



Chlorpromazine

Experimental

HPLC Conditions

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
Injection volume:	20 µL
Detection:	MS ESI-

Instrument:

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

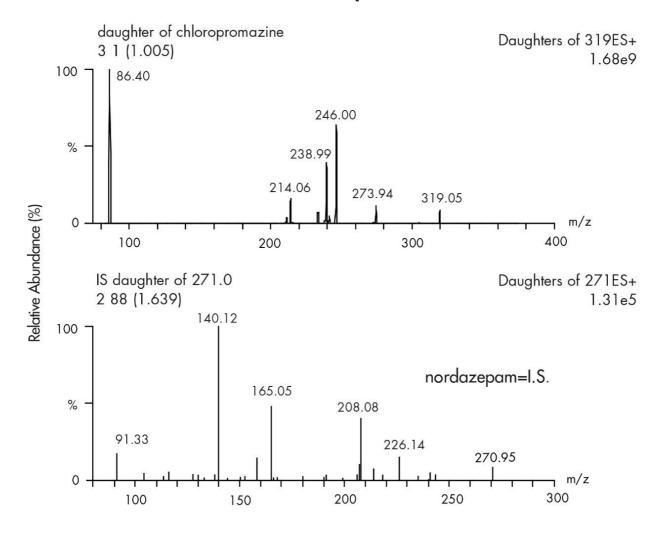
Wash plate 500 µL 2 % HCl in water

Elute plate 300 µL 5% NH₄OH in methanol

> Dilute 200 µL water

Results and Discussion

CID mass spectra



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