

Chlorpromazine in Rat Plasma

Waters Corporation



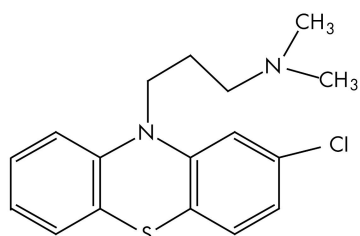
This is an Application Brief and does not contain a detailed Experimental section.

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: Alliance 2790, Micromass Quattro Ultima

MS Conditions

Ion source: ESI+

Source temp.: 150 °C

Gas cell: 1.5×10^{-3} mbar, 20 eV

Desolvation temp.: 350 °C

Cone gas flow: 150 L/hr

Drying gas 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

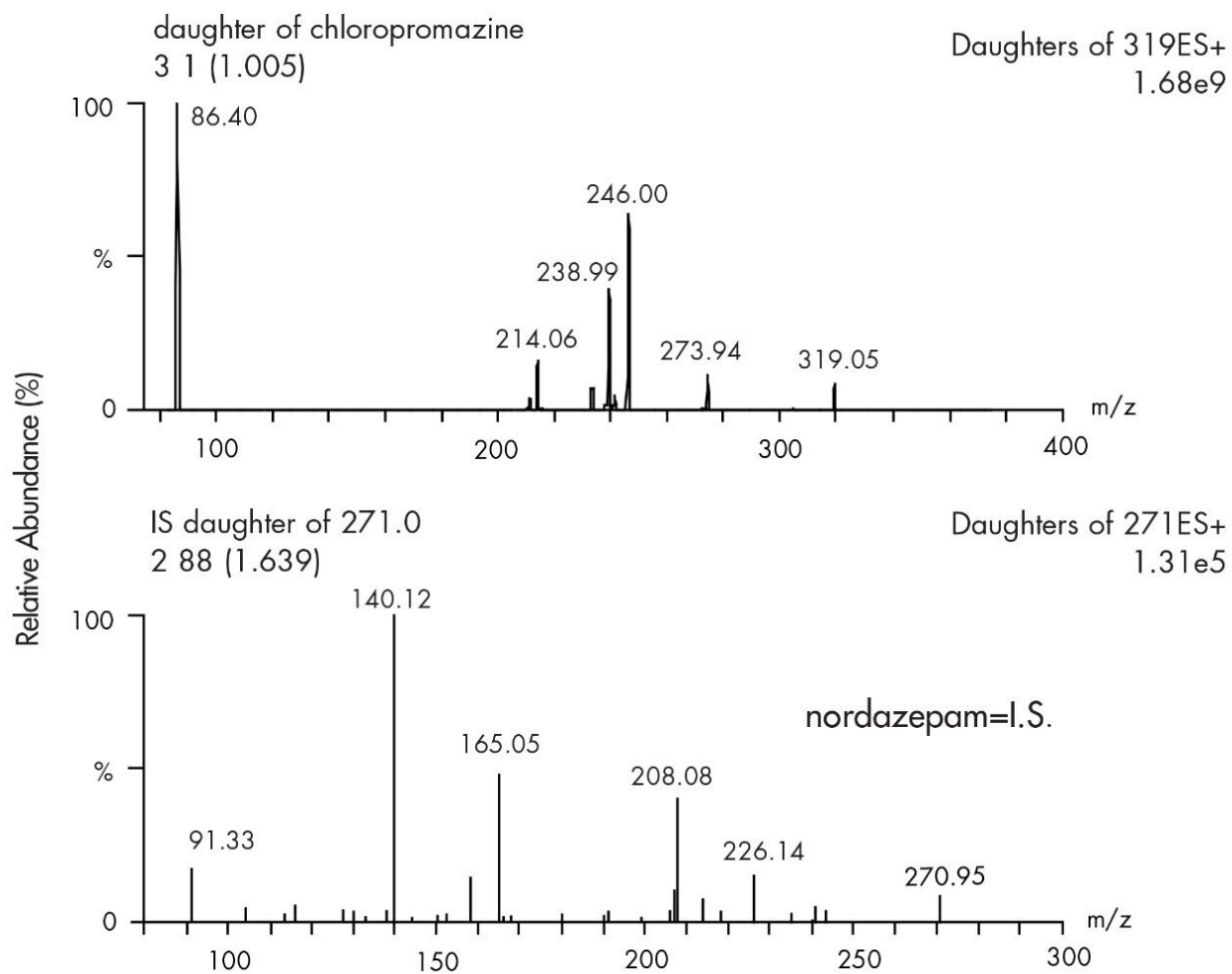
Wash plate
500 µL 2 % HCl in water

Elute plate
300 µL 5% NH₄OH in methanol

Dilute
200 µL water

Results and Discussion

CID mass spectra



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