

응용 자료

Oxybutynin in Rat Plasma - Xterra MS C18 Column

Waters Corporation



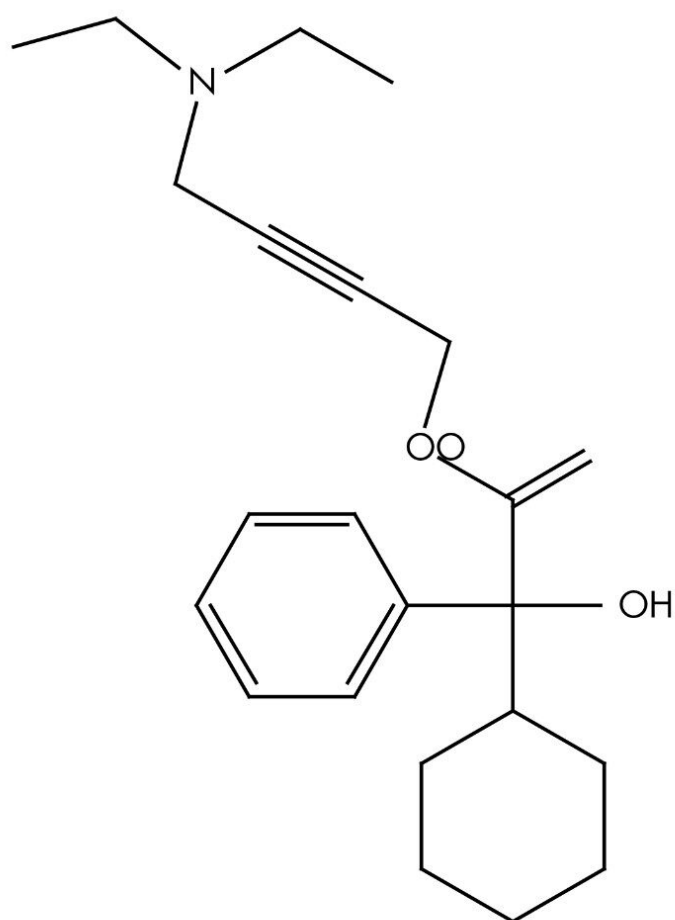
This is an Application Brief and does not contain a detailed Experimental section.

Abstract

This application brief demonstrates analysis of oxybutynin in rat plasma.

Introduction

The compound analyzed in this study is oxybutynin.



OXYBUTYNIN

Experimental

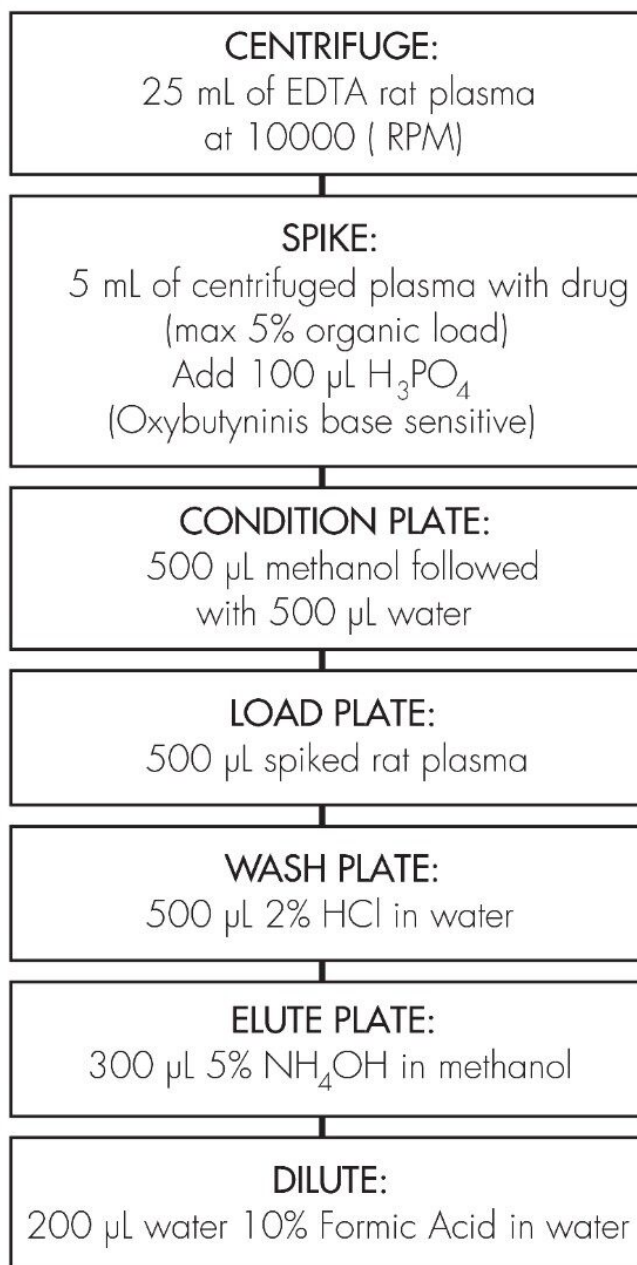
HPLC Method

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
Isocratic mobile phase composition:	45% A; 55% B
Flow rate:	0.2 mL/min
Injection volume:	30 µL
Detection:	MS ESI ⁺
Instrument:	Alliance 2790, Quattro Ultima
Ion source:	Electrospray Positive
Source temperature:	150 °C
Gas cell:	1.5e ⁻³ mbar, 25eV
Desolvation temperature:	350 °C
Cone gas flow:	150 L/hr
Drying gas flow:	600 L/hr
Cone voltage:	30 V

OASIS® MCX EXTRACTION METHOD

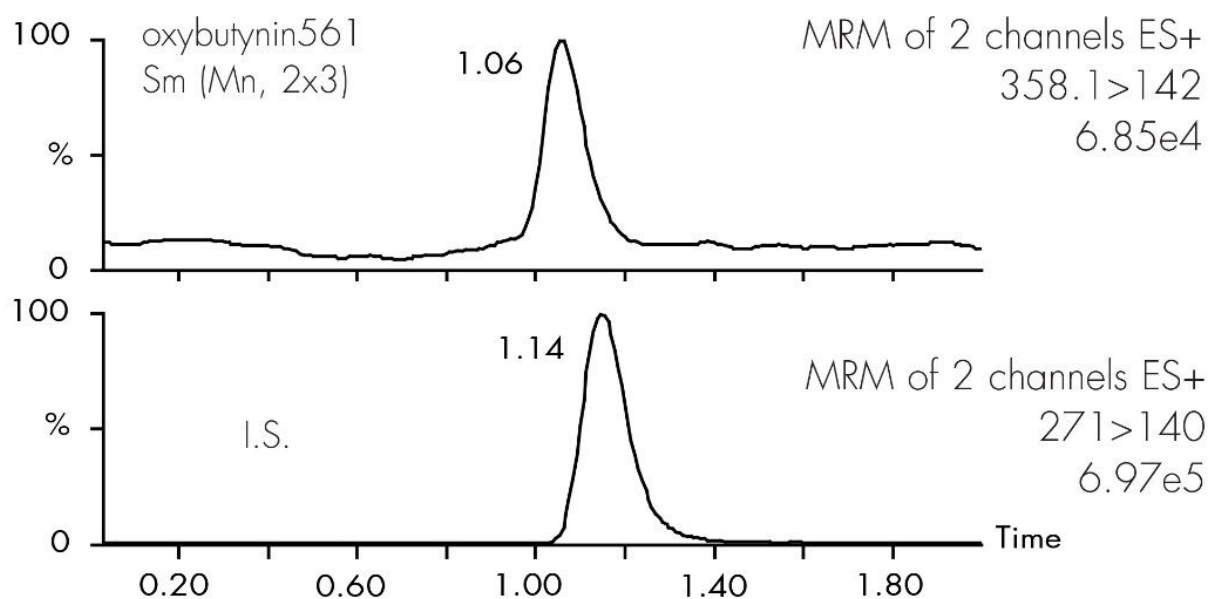
Oasis® MCX Extraction Plate, 10 mg/96 well

Part Number 186000259

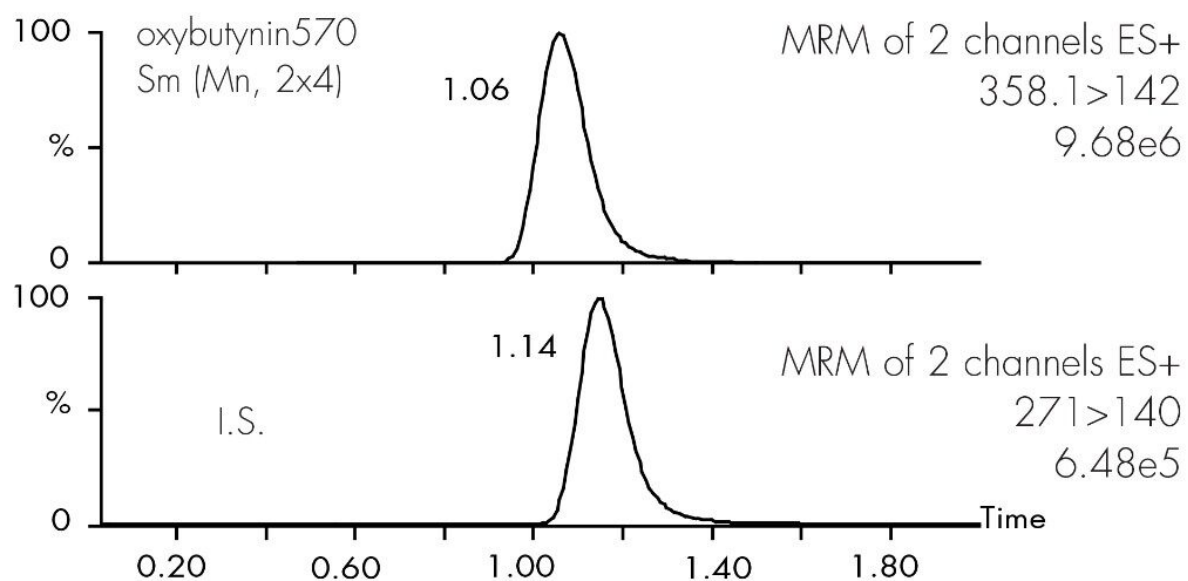


Results and Discussion

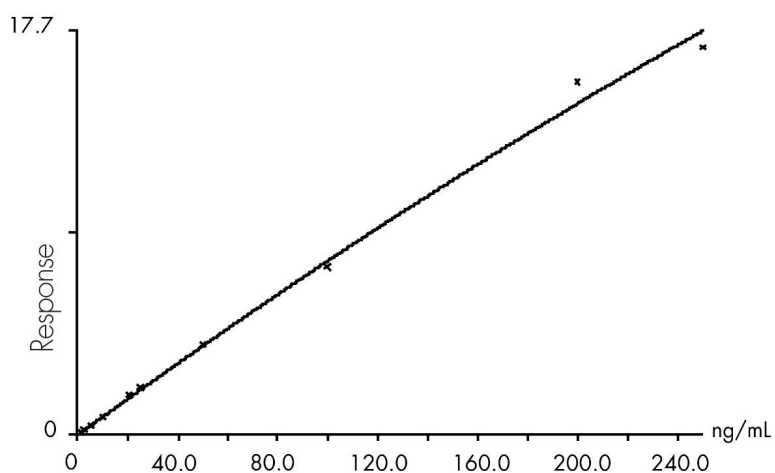
Spike 1 ng/mL, 55/45 ACN/H₂O 0.1 M NH₄ Formate pH 4



Spike 250 ng/mL, 55/45 ACN/H₂O 0.1 M NH₄ Formate pH 4



Compound name: Oxybutynin
Coefficient of Determination: 0.995732
Calibration curve: $-3.59333\text{e-}5 \cdot x^2 + 0.0799116 \cdot x + 0.000289979$
Response type: Internal Std (Ref 1), Area* (IS Conc./IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x², Axis trans: None



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WA31764.115, June 2003