

Application Note

Propranolol in Rat Plasma by Mixed-Mode SPE and LC-MS/MS (Low Elution Volume)

Waters Corporation



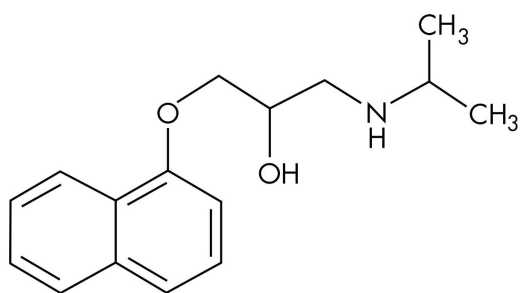
This is an Application Brief and does not contain a detailed Experimental section.

Abstract

This application brief demonstrates the analysis of Propranolol in Rat Plasma by LC-MS/MS.

Introduction

The compound analyzed in this study is Propranolol.



PROPRANOLOL

Experimental

HPLC Method

Column:	XTerra MS C ₁₈ , 2.1 x 30 mm, 3.5 µm
Part number:	186000398
Mobile phase A:	Water + 0.5 % NH ₄ OH
Mobile phase B:	ACN + 0.5 % NH ₄ OH
Flow rate:	0.2 mL/min

Temperature: Ambient

LC instrument: Alliance 2795

Gradient

Time (min)	Profile
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	%A
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0	5
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1	95
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MS Conditions

MS instrument: Micromass Quattro Triple Quadrupole

Ion source: ESI+

Source temp.: 150 °C

Gas cell: 2.0 e⁻³ bar Argon

Desolvation temp.: 350 °C

Drying gas flow: 500 L/hr

Cone gas flow: 50 L/hr

Cone voltage: 25 V

Collision energy: 20

Capillary voltage: 3.5 Kv

MRM transition:

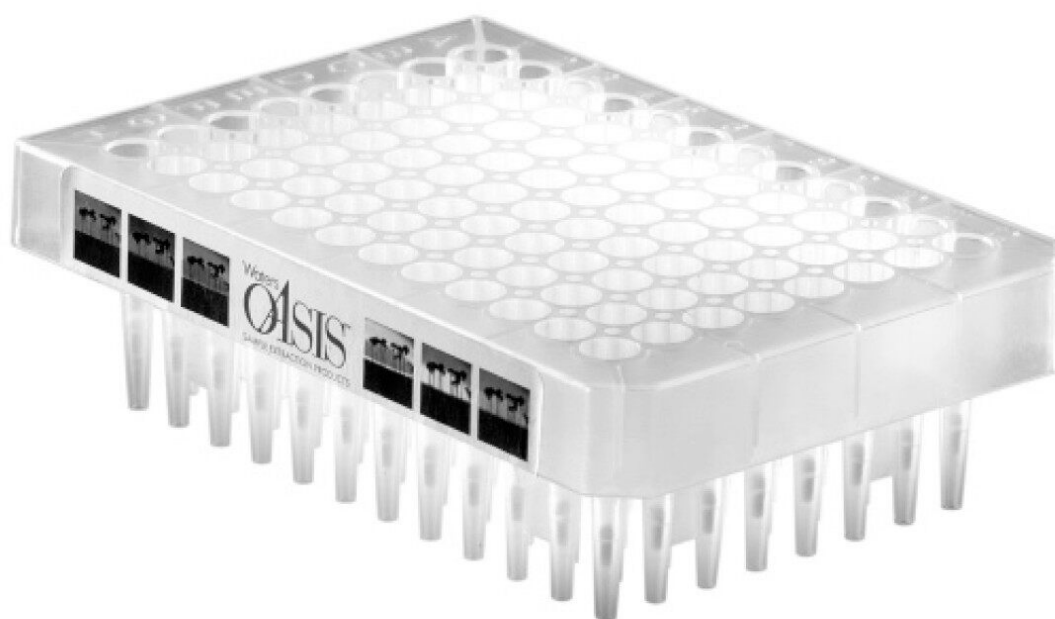
Metoclopramide (IS) m/z 299.8 $\rightarrow$ 226.7

Propranolol m/z 259.9 $\rightarrow$ 154.9

Amitriptyline m/z 278.1 $\rightarrow$ 232.9

Nortriptyline m/z 263.9 $\rightarrow$ 190.8

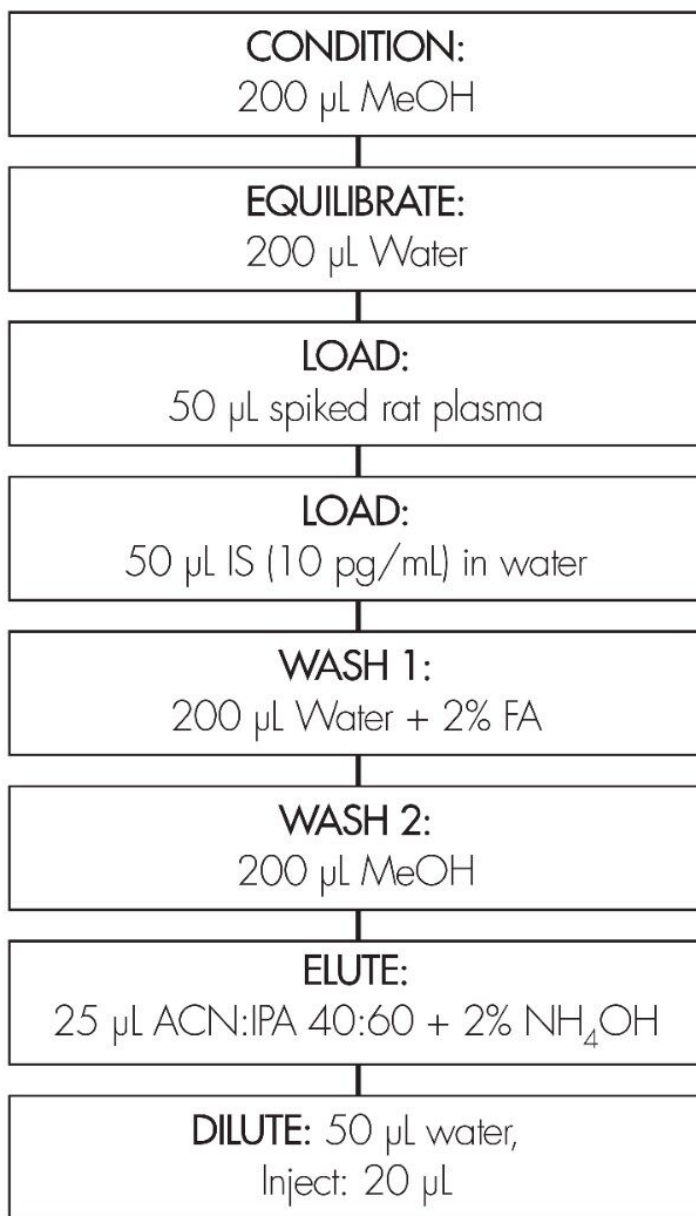
NEW! OASIS[®] μ ELUTION PLATE



OASIS® MCX GENERIC EXTRACTION PROTOCOL

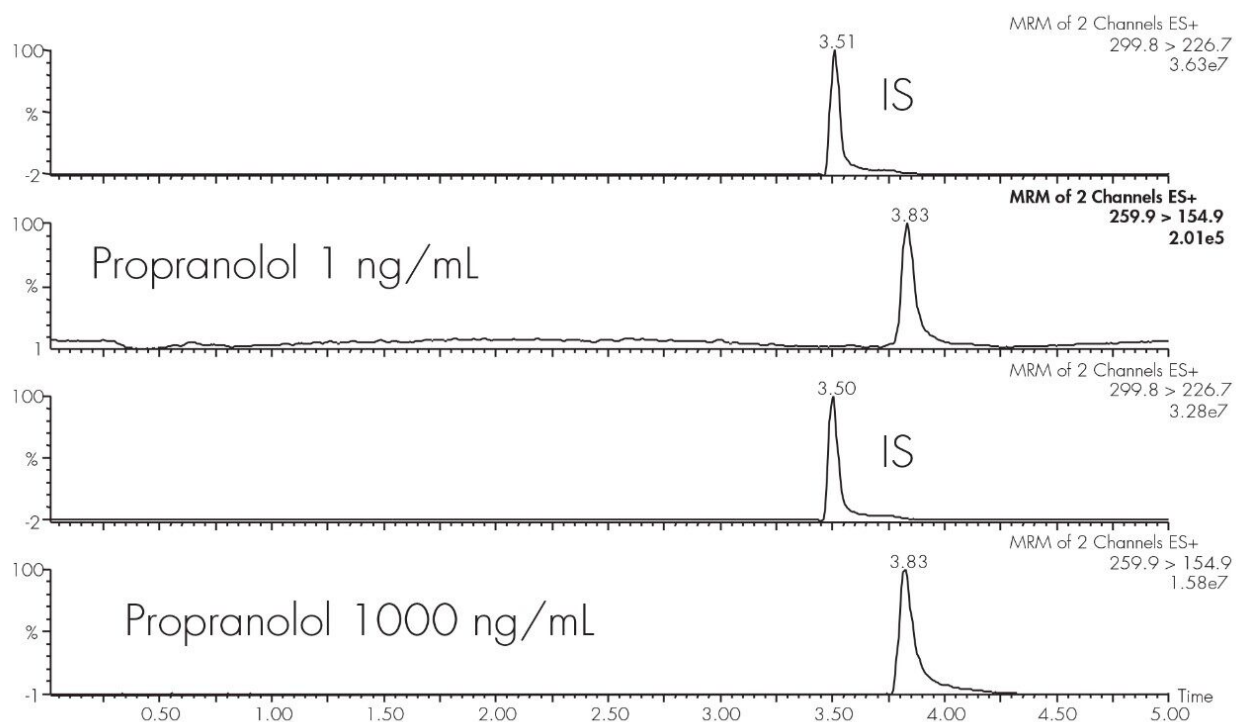
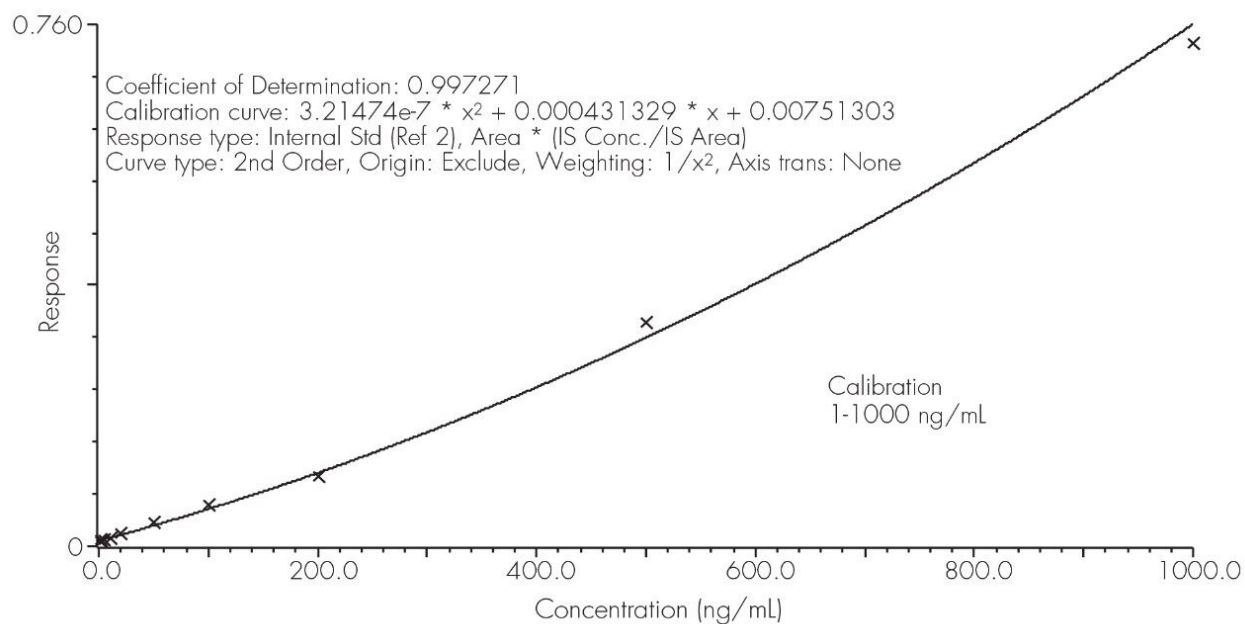
Conditions for Oasis® MCX μ Elution Plate

Part Number 186001830



Results and Discussion

CALIBRATION CURVE



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WA31764.132, June 2003

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