



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

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Waters Corporation



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

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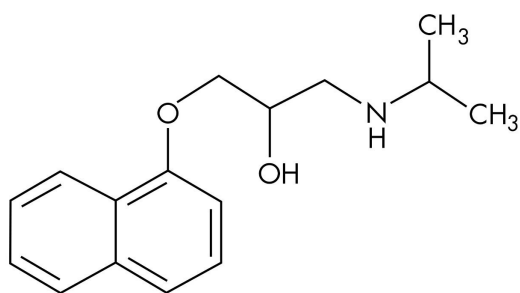
### Abstract

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

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## Introduction

The compound analyzed in this study is Propranolol.



PROPRANOLOL

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## Experimental

### HPLC Method

Column:	XTerra MS C <sub>18</sub> , 2.1 x 30 mm, 3.5 μm
Part number:	186000398
Mobile phase A:	Water + 0.5 % NH <sub>4</sub> OH
Mobile phase B:	ACN + 0.5 % NH <sub>4</sub> 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<sup>-3</sup> 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:

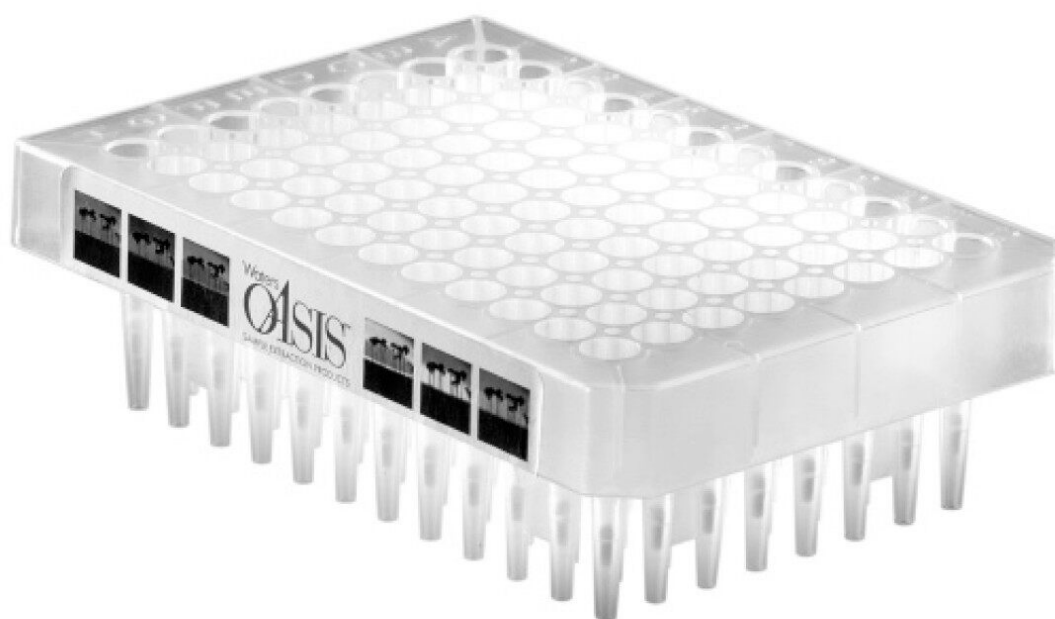
Metoclopramide (IS)  $m/z$  299.8  $\rightarrow$  226.7

Propranolol  $m/z$  259.9  $\rightarrow$  154.9

Amitriptyline  $m/z$  278.1  $\rightarrow$  232.9

Nortriptyline  $m/z$  263.9  $\rightarrow$  190.8

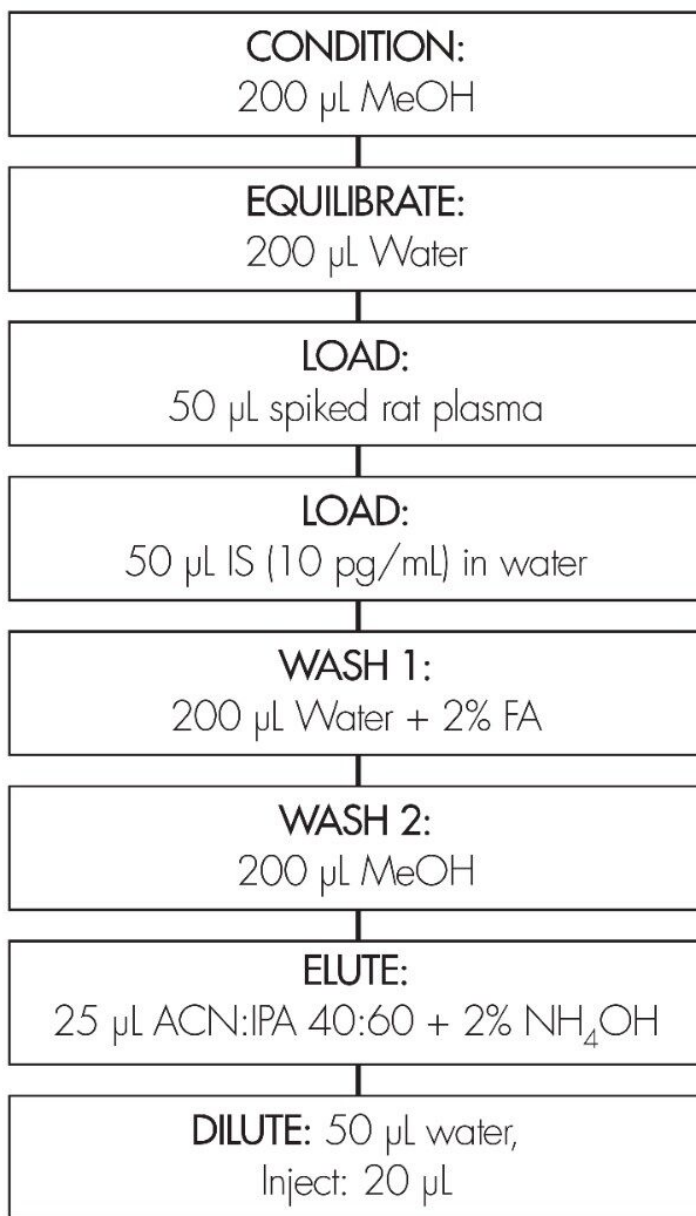
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## OASIS® MCX GENERIC EXTRACTION PROTOCOL

Conditions for Oasis® MCX  $\mu$ Elution Plate

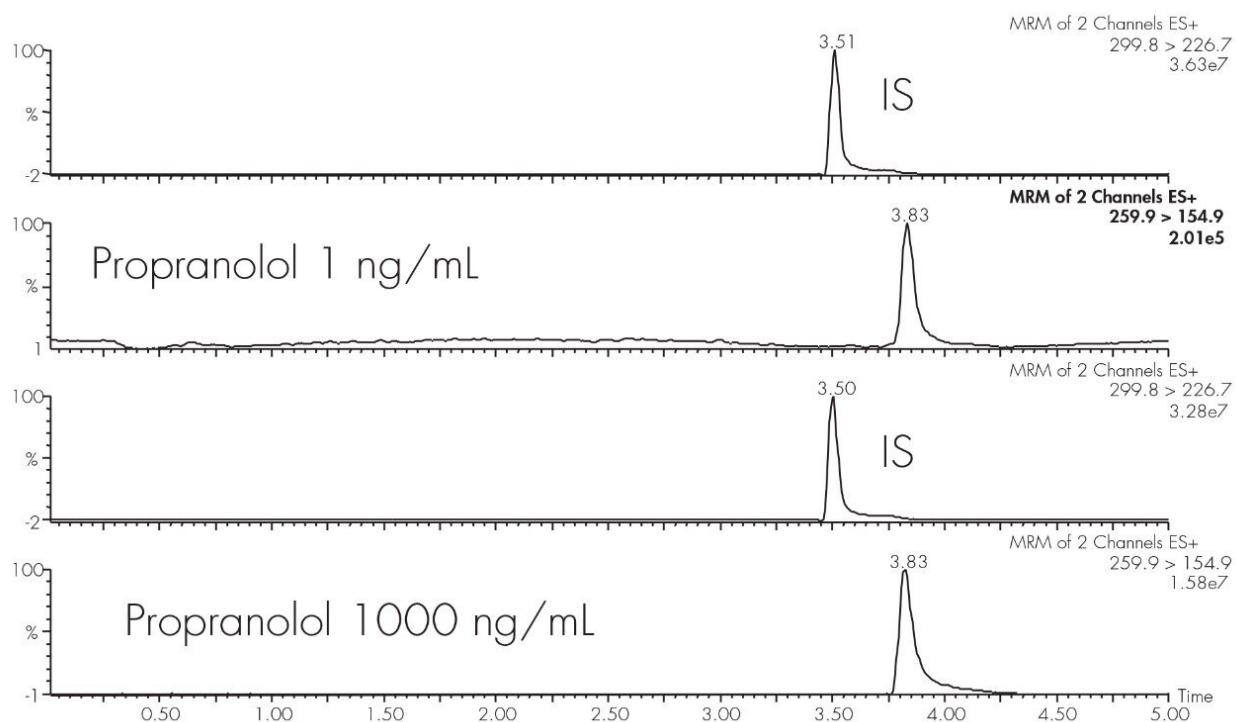
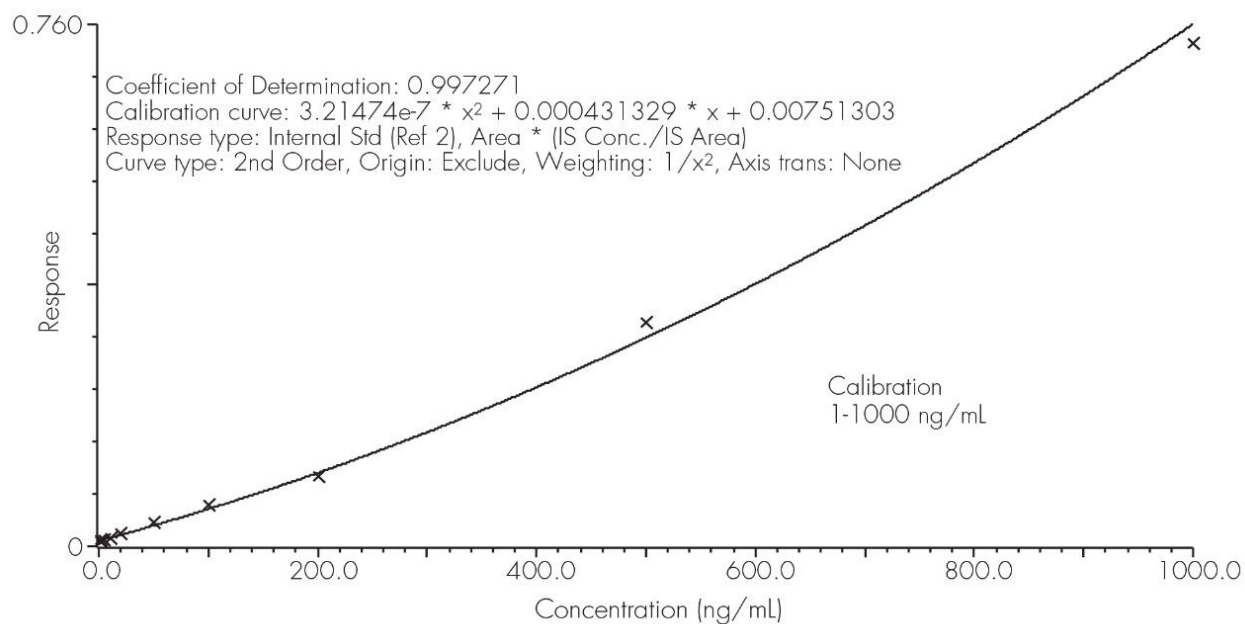
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Results and Discussion

# CALIBRATION CURVE



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