

Atenolol in Rat Plasma by Mixed-Mode Weak Cation Exchange and LC-MS/MS

Waters Corporation

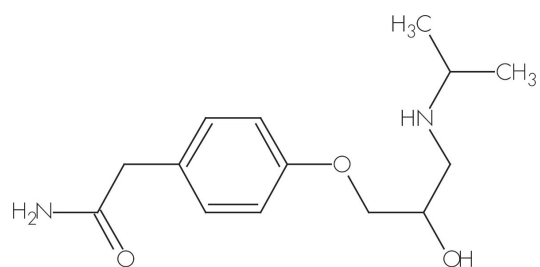
This is an Application Brief and does not contain a detailed Experimental section.

Abstract

This application brief demonstrates analysis of atenolol in rat plasma by mixed-mode weak cation exchange and LC-MS/MS.

Introduction

The compound analyzed in this study is Atenolol.



Atenolol

Experimental

LC Conditions

| | |
|---------------------|--|
| Column: | XTerra MS C ₁₈ 2.1 x 20 mm <i>IS</i> , 3.5 μm |
| Part number: | 186001923 |
| Mobile phase A: | 10 mM NH ₄ HCO ₃ , pH 10 |
| Mobile phase B: | MeOH with 10 mM NH ₄ HCO ₃ , pH 10 |
| Flow rate: | 0.4 mL/min |
| Injection volume: | 10 μL |
| Column temperature: | Ambient |
| Instrument: | Waters 2777 Sample Manager and Waters 1525μ Binary HPLC Pump |

Gradient

| Time (min) | %A | %B |
|------------|----|----|
| 0.0 | 95 | 5 |
| 3.0 | 5 | 95 |
| 4.0 | 5 | 95 |
| 4.1 | 95 | 5 |
| 5.0 | 95 | 5 |

MS Conditions

Waters Micromass Quattro Ultima

ESI+

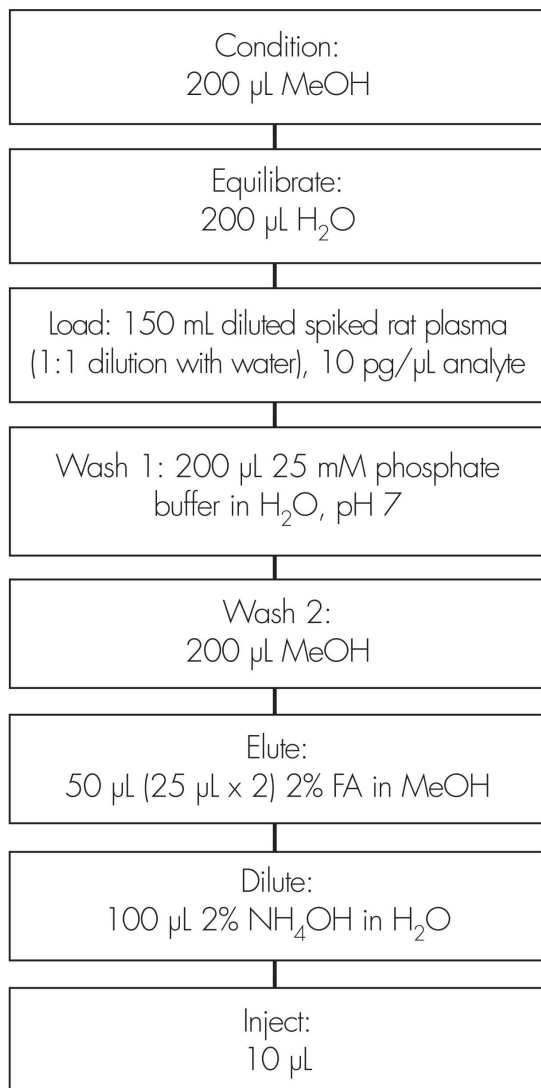
Source temp.: 150 °C

Desolvation temp.: 350 °C

| | |
|-----------------------|---------------------------------|
| Cone gas flow: | 50 L/Hr |
| Desolvation gas flow: | 550 L/Hr |
| Collision cell: | $2.2e^{-3}$ bar (Argon gas) |
| Cone voltage: | 45 volts |
| CID: | 25eV |
| MRM transition: | m/z 266.9 \rightarrow 144.9 |

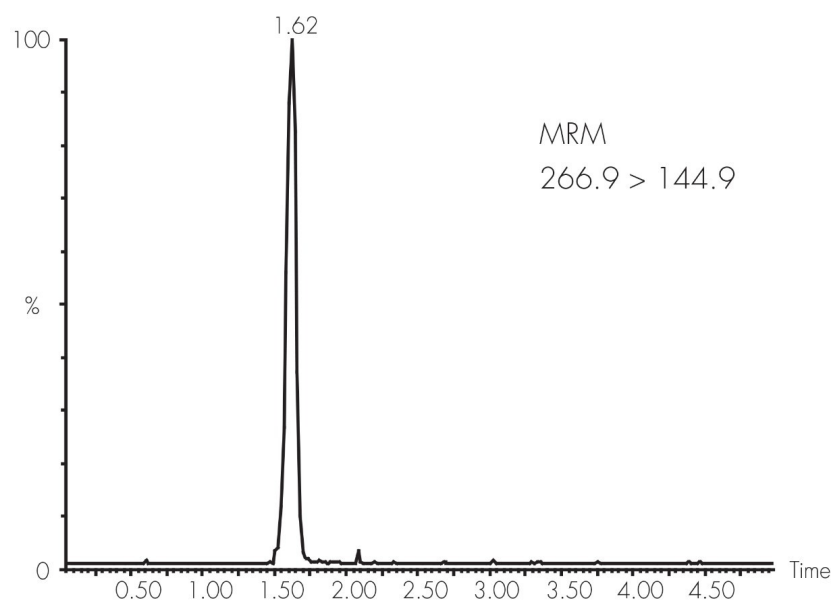
Oasis® WCX μ Elution Plate

Part Number: 186002499



Results and Discussion

101% Recovery



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