## Waters™

#### Applikationsbericht

# Atenolol in Urine by Mixed-Mode Weak Cation Exchange and LC-MS/MS

Waters	Corno	ration

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

#### Abstract

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

#### Introduction

The compound analyzed in this study is Atenolol.

#### **Atenolol**

## Experimental

#### LC Conditions

XTerra MS  $C_{18}$  2.1 x 20 mm  $\emph{IS}$ , 3.5  $\mu m$ Column: Part number: 186001923 Mobile phase A: 10 mM NH<sub>4</sub>HCO<sub>3</sub>, pH 10 Mobile phase B: MeOH with 10 mM NH<sub>4</sub>HCO<sub>3</sub>, pH 10 Flow rate: 0.4 mL/min Injection volume: 10 µL Ambient Column temperature: Instrument: Waters 2777 Sample Manager and Waters  $1525\mu$ 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<sup>-3</sup> bar (Argon gas)

Cone voltage: 45 volts

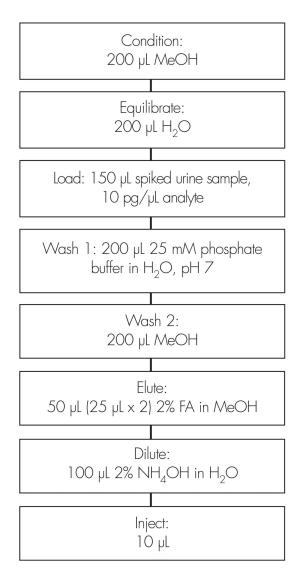
CID: 25eV

m/z 266.9  $\rightarrow$  144.9

MRM transition:

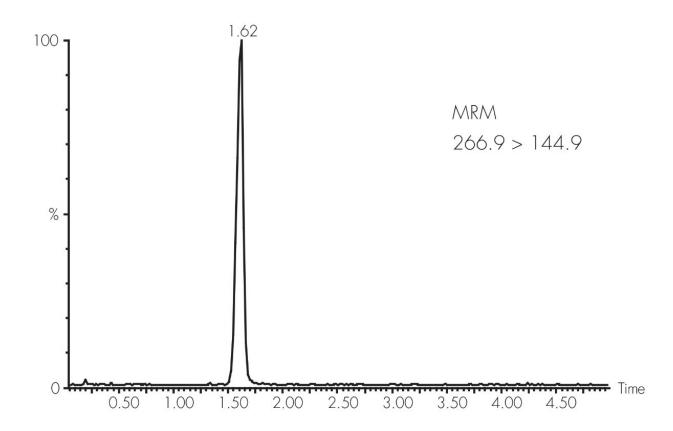
## Oasis® WCX µElution Plate

Part Number: 186002499



#### Results and Discussion

## 106% Recovery



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