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Nota applicativa

# Chlorzoxazone in Rat Plasma

Waters Corporation

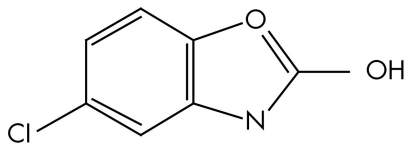
This is an Application Brief and does not contain a detailed Experimental section.

## Abstract

This application brief highlights the analysis of chlorzoxazone in rat plasma using Oasis MAX extraction method.

## Introduction

Chlorzoxazone is analyzed in this application brief.




CHLORZOXAZONE

# Experimental

## HPLC Method

| | |
|---|---|
| Column: | XTerra MS $C_{18}$ 4.6 x 30 mm, 3.5 µm (p/n: 186000398) |
| Mobile phase A: | 0.2% HCOOH |
| Mobile phase B: | ACN |
| Isocratic mobile phase composition: | 45% A; 55% B |
| Flow rate: | 0.2 mL/min |
| Injection volume: | 20 µL |
| Temperature: | 60 °C |
| Detection: | MS ESI- |
| Instrument: | Alliance 2790, Micromass Quattro Ultima |

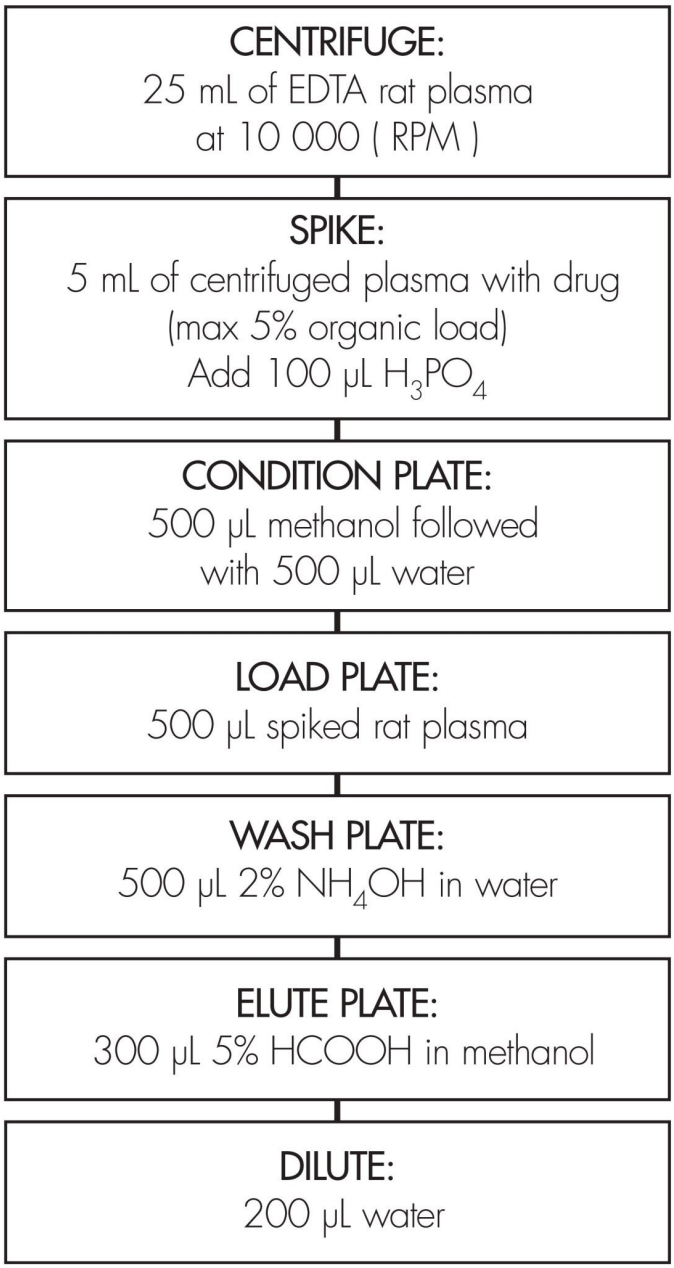
## MS Conditions

| | |
|---|---|
| Ion source: | ESI- |
| Source temp.: | 150 °C |
| Gas cell: | $1.5e^{-3}$ mbar, 20 eV |
| Desolvation temp.: | 350 °C |

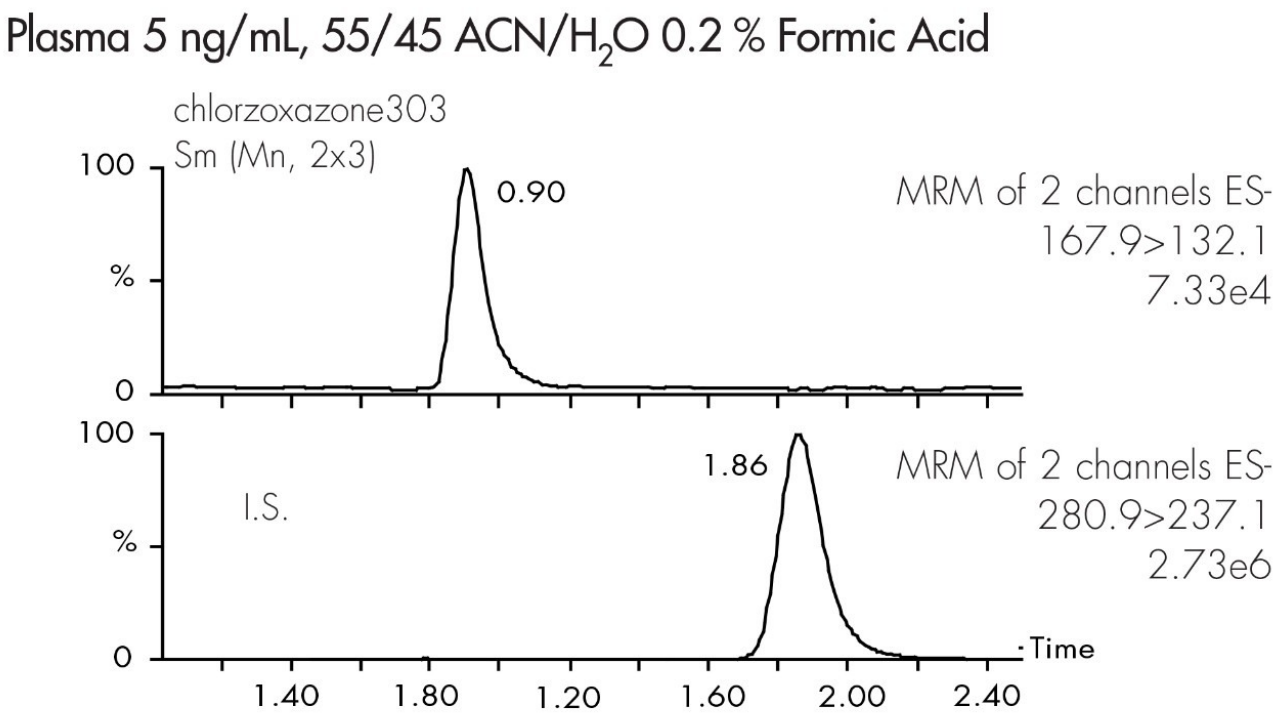
| | |
|---|---|
| Cone gas flow: | 150 L/hr |
| Drying gas flow: | 600 L/hr |
| Cone voltage: | 30 V |

## OASIS® MAX EXTRACTION METHOD

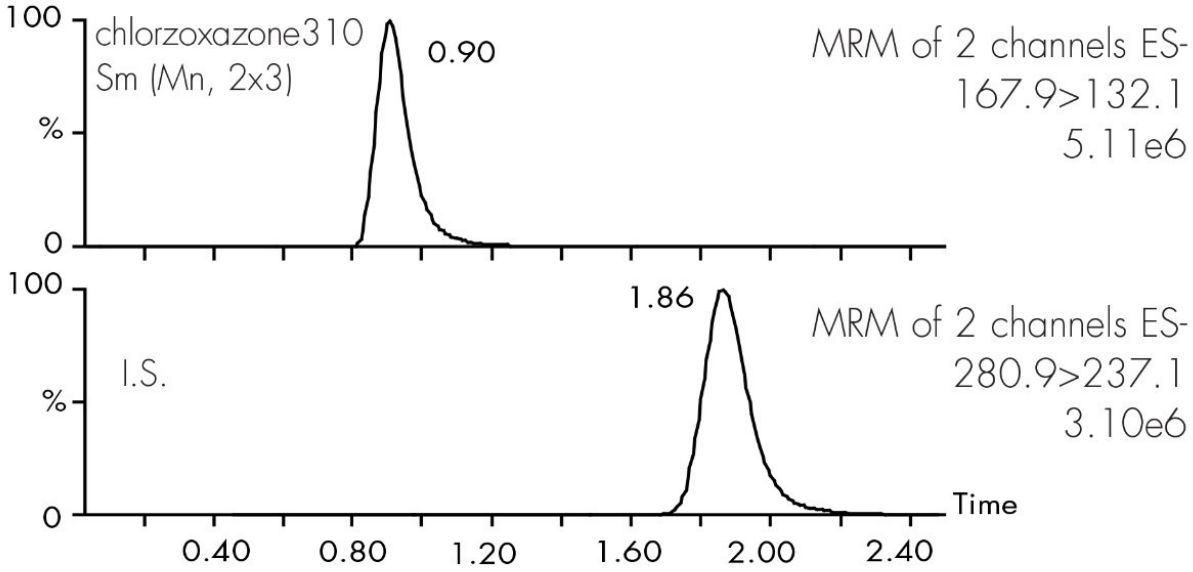
Oasis® MAX Extraction Plate, 10 mg/96-well
Part Number 186000375



## Results and Discussion



Plasma 250 ng/mL, 55/45 ACN/$H_2O$ 0.2 % Formic Acid




| Chlorzoxazone (ng/mL) | Mean | Standard deviation | Coefficient of variation (%) | Recovery (%) |
|---|---|---|---|---|
| 5 | 4.93 | 0.076 | 1.5 | 99 |
| 10 | 10.4 | 0.38 | 3.7 | 104 |
| 25 | 24.96 | 1.43 | 5.7 | 99 |
| 100 | 99.85 (5) | 3.53 | 3.5 | 99 |
| 250 | 245.91 | 8.31 | 3.3 | 98 |

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