# Waters™

Applikationsbericht

# Camphorsulfonic Acid in Rat Plasma on Oasis WAX

Waters Corporation



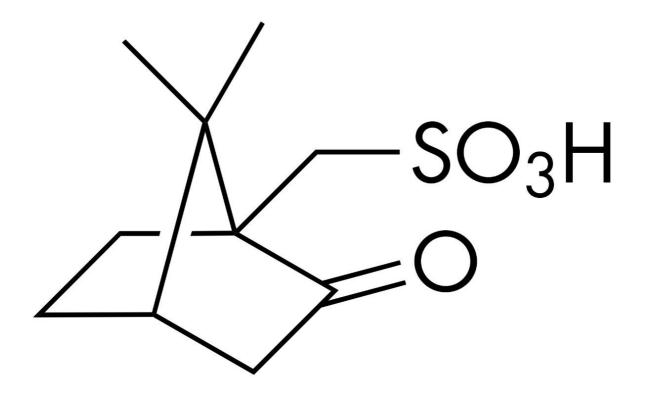
This is an Application Brief and does not contain a detailed Experimental section.

Abstract

This application brief demonstrates analysis of camphorsulfonic acid in rat plasma on Oasis Wax.

## Introduction

Camphorsulfonic acid is a strong acid with a pKa of approximately 1.5. The best SPE recoveries for this type of acid are on Oasis WAX products.



Experimental

**Test Conditions** 

Oasis WAX 10 mg 96-Well Plate

Condition:	500 μL MeOH
Equilibrate:	500 µL H <sub>2</sub> O
Load:	500 µL (250 µL rat plasma, diluted 1:1 with 4% H <sub>3</sub> PO <sub>4</sub> )
Wash 1:	500 µL 2% FA, pH 2.7
Wash 2:	500 µL MeOH
Elute:	250 $\mu L$ (125 $\mu L$ x 2) 5% $NH_4OH$ in MeOH
Options:	1. Dilute 250 $\mu L$ H_2O with 2% FA
	2. Evaporate/ Reconstitute
	3. Direct inject
Inject:	10 µL

### Oasis WAX 96-Well Plate $\mu$ Elution Plate

Condition:	200 µL MeOH
Equilibrate:	200 µL H <sub>2</sub> O
Load:	100 $\mu L$ (50 $\mu L$ rat plasma diluted 1:1 with 4% $H_3$ PO_4)
Wash 1:	200 µL 2% FA, pH 2.7
Wash 2:	200 µL MeOH

Elute:	50 $\mu L$ (25 $\mu L$ x 2) 5% $\rm NH_4OH$ in MeOH
Options:	1. Direct injection 2. Dilute with 50 $\mu$ L H <sub>2</sub> O with 2% FA
	3. Evaporate/ Reconstitute
Inject:	10 µL
Column:	SunFire C <sub>18</sub> 2.1 x 20 mm IS, 3.5 µm
Mobile phase A:	10 mM CH <sub>3</sub> COO-NH <sub>4</sub> +, pH 5.5
Mobile phase B:	MeOH with 10 mM CH <sub>3</sub> COO-NH <sub>4</sub> +, pH 5.5
Flow rate:	0.4 mL /min
Injection volume:	10 µL
Column temp:	Ambient
Instrument:	2777 Sample Manager, 1525µ Binary HPLC Pump and Quattro Premier

### Gradient

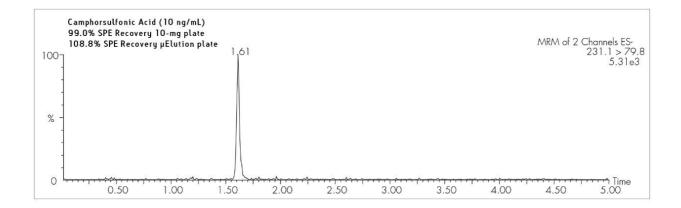
Time	Profile	
(min)	%A	%B
0.0	95	5
3.0	5	95
4.0	5	95
4.1	95	5
5.0	95	5

### Quattro Premier

ESI- source temp:	150 °C
Desolvation temp:	350 °C
Cone gas flow:	50 L /Hr
Desolvation gas flow:	600 L /Hr
Collision cell:	2.2e <sup>-3</sup> bar (Ar gas)

	MRM transition	Cone (V)	CID (eV)
Camphorsulfonic acid	$m/z$ 231.1 $\rightarrow$ 79.8	60	30

## Results and Discussion



WA60084, June 2007

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