Waters™

응용 자료

Camphorsulfonic Acid in Rat Plasma on Oasis WAX

Waters Corporation



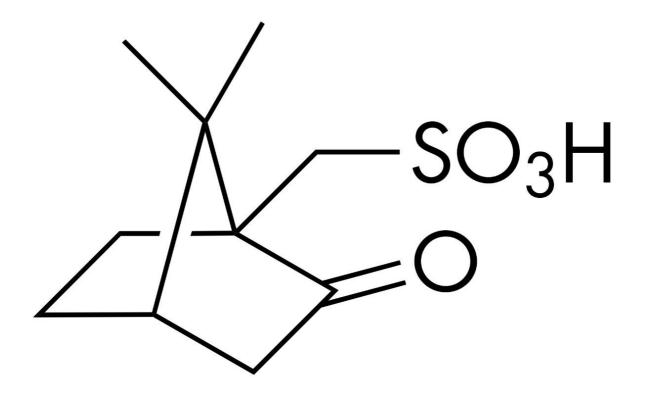
This is an Application Brief and does not contain a detailed Experimental section.

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 ₂ O
Load:	500 μL (250 μL rat plasma, diluted 1:1 with 4% H $_3 PO_4)$
Wash 1:	500 μL 2% FA, pH 2.7
Wash 2:	500 μL MeOH
Elute:	250 μL (125 μL x 2) 5% NH_4OH in MeOH
Options:	1. Dilute 250 μL H_2O with 2% FA
	2. Evaporate/ Reconstitute
	3. Direct inject
Inject:	10 μL

Oasis WAX 96-Well Plate μ Elution Plate

Condition:	200 μL MeOH
Equilibrate:	200 μL H ₂ O
Load:	100 μL (50 μL 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 μL (25 μL x 2) 5% NH_4OH in MeOH
Options:	 Direct injection Dilute with 50 μL H₂O with 2% FA Evaporate/ Reconstitute
Inject:	10 μL
Column:	SunFire C ₁₈ 2.1 x 20 mm IS, 3.5 μm
Mobile phase A:	10 mM CH ₃ COO-NH ₄ +, pH 5.5
Mobile phase B:	MeOH with 10 mM $CH_3COO-NH_4+$, 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

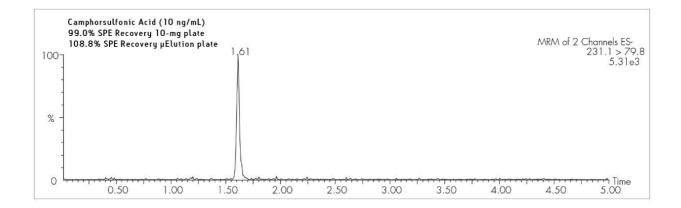
Time	Profile	
(min)	%A	%B
0.0	95	5
3.0	5	95
4.0	5	95
4.1	95	5
5.0	95	5

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 ⁻³ bar (Ar gas)

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

Results and Discussion



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