

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 μ L MeOH
Equilibrate:	500 μ L H ₂ O
Load:	500 μ L (250 μ L rat plasma, diluted 1:1 with 4% H ₃ PO ₄)
Wash 1:	500 μ L 2% FA, pH 2.7
Wash 2:	500 μ L MeOH
Elute:	250 μ L (125 μ L x 2) 5% NH ₄ OH in MeOH
Options:	1. Dilute 250 μ L H ₂ O with 2% FA 2. Evaporate/ Reconstitute 3. Direct inject
Inject:	10 μ L

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 ₄ OH in MeOH
Options:	<ol style="list-style-type: none"> 1. Direct injection 2. Dilute with 50 µL H₂O with 2% FA 3. 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 ₃ COO-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 a Quattro Premier

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)

Results and Discussion

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