HPLC Application

ID No.: 22985



Extraction of Procaine from Serum using Strata-X-C 10mg Plate & Kinetex 2.6u Biphenyl, 50x2.1 Column

Kinetex® 2.6 μm Biphenyl 100 Å, LC Column 50 x 2.1 mm, Ea

Dimensions: 50 x 2.1 mm ID Order No: 00B-4622-AN Elution Type: Gradient

Eluent A: 0.1% formic acid in water **Eluent B:** 0.1% formic acid in acetonitrile

Gradient	Step No.	Time (min)	Pct A	Pct B
Profile:	1	0	95	5
	2	0.5	95	5
	3	3	5	95
	4	3.5	5	95
	5	3.51	95	5
	6	5.5	95	5

Flow Rate: 0.5 mL/min Col. Temp.: 25 °C

Detection: Electrospray Mass Spec (ESMS) @ 0.000000000 (ambient)

Strata X-C 10 mg Plate Protocol Analyst Note:

> Condition 500 µL methanol Equilibrate 500uL water Load

750 μL diluted serum

(375 μ L plasma diluted 1:1 with 4% phosphoric acid in water)

Wash1

500 µL 2% formic acid in water

Wash 2

500 µL methanol

Elute

375 μ L(3x125 μ L) 5% ammonium hydroxide in acetonitrile:methanol(60:40)

Inject 1 μL

Note: Spiked conc. of analyte was 1 ng/mL serum



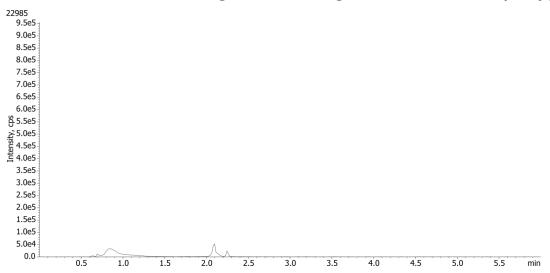
Products used in this application:



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ANALYTES:

1 Procaine

Retention Time: 2.09 min

Sample Preparation Details for HPLC Application ID No.: 22985



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PRODUCT DESCRIPTION:

Strata™-X-C 33 µm Polymeric Strong Cation, 10 mg / well, 96-Well Plates , 2/Pk

Order No.: 8E-S029-AGB

SOLID PHASE EXTRAC	TION (SPE) PRODCEDU	RE:				
Note: The solvent volumes	shown below are for a 10 mg	bed mass.				
The solvent volumes	will need to be adjusted for a	smaller or	larger bed r	mass.		
Condition:						
Load:						
Dilute 375µL serum with 375µL of 4	% Phosphoric acid in water.					
Dilute 150 uL of human plasma (spi	ked with 25 ng/mL and 125 ng/mL of cortisone	and prednisolone	respectively) with	150 uL of 50 mM sodium	phosphate dibasic heptahyd	rate, pH unadjusted.
Mix briefly (3-5 sec).						
Sample loading:						
Load the sample from pre-treatmen	t step above onto the Novum plate and apply a	short and gentle p	oulse of vacuum (~	10" of Hg for 20 secs) u	ntil the sample has complete	ly entered the media.
Wait for 5 minutes						
Wash:						
_						
Dry:						
Elute:						
Final Prep and Analysis:						
No dry down step was	performed. 1µL of final elue	nt was direc	t injected.			
Inject: 1 μL on HPLC E	lectrospray Mass Spec (ESMS	6) @ 0.0000	000000 (ar	mbient)		
ANALYTES:	Spiked Conc.	Log P	pKa	% Rec	%RSC	
	(ng/mL)	5	P		(n=0)	
1 Procaine	1				(/	
	-					

This method is designed as a convenient starting point for further investigation and can be tailored to meet your extraction goals. Call your local Phenomenex Representative for assistance in method development and optimization techniques.

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For more information contact your Phenomenex Representative at international@phenomenex.

