HPLC Application

ID No.: 22983



Extraction of Procaine from Serum using Strata-X-C Microelution & a Kinetex Biphenyl HPLC Column

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

50 x 2.1 mm ID **Dimensions:** 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: Tandem Mass Spec (MS-MS) @ (ambient)

Strata X-C Elution Plate Protocol Analyst Note:

> Condition 200 µL methanol Equilibrate 200uL water Load

750 μL diluted serum

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

Wash1

200 µL 2% formic acid in water

Wash 2

200 µL methanol

Elute

25 μL 5% ammonium hydroxide in acetonitrile:methanol(60:40)

Inject 1 μL

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



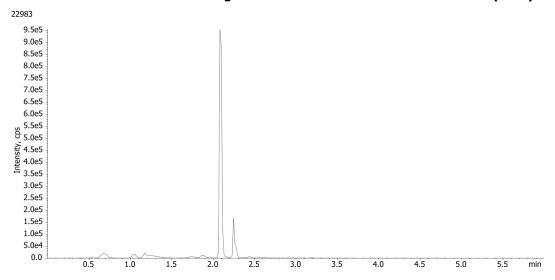
Products used in this application:





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ANALYTES:

1 Procaine

Retention Time: 2.09 min

Sample Preparation Details for HPLC Application ID No.: 22983



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PRODUCT DESCRIPTION:

Novum SLE MINI 96-Well Plate, 1/Pk

Order No.: 8E-S138-FGA

SOLID PHASE EXTRACTION (SPE) PRODCEDURE

Note: The solvent volumes sho		-				
The solvent volumes will	need to be adjusted for a	smaller or	larger bed r	nass.		
Condition:						
Load:						
Sample pre-treatment:						
Dilute 150 uL of human plasma (spiked wi	th 25 ng/mL and 125 ng/mL of cortisone	and prednisolone	respectively) with 1	150 uL of 50 mM sodium	phosphate dibasic heptahy	drate, pH unadjusted.
Mix briefly (3-5 sec).						
Sample loading:						
Load the sample from pre-treatment 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 comple	tely entered the media
Wait for 5 minutes						
Wash:						
Dry:						
Elute:						
Final Prep and Analysis:						
Sample pre-treatment	sema (anilod with 2F ng/	ml and 12E	ng/ml of o	orticana and		
Dilute 150 uL of human pl	asına (spiked witii 25 ng/	IIIL aliu 125	rig/iiiL oi ci	ortisone and		
Inject: 1 μL on HPLC Tand	em Mass Spec (MS-MS) @	(ambient	t)			
ANALYTES:	Spiked Conc.	Log P	pKa	% Rec	%RSC	
ANALTIES:		LOG F	pica	70 REC		
	(ng/mL)				(n=0)	
1 Procaine	1			116		

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 info@phenomenex.com

