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: Electrospray Mass Spec (ESMS) @ 0.000000000 (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

 $25~\mu L$ 5% ammonium hydroxide in acetonitrile:methanol(60:40)

Inject 1 μL

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

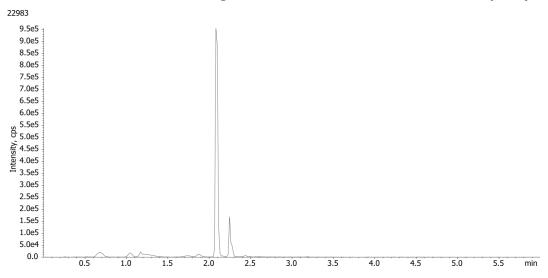


Products used in this application:



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ANALYTES:

1 Procaine

Retention Time: 2.09 min

Sample Preparation Details for HPLC Application ID No.: 22983



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PRODUCT DESCRIPTION:

Novum SLE MINI 96-Well Plate, 1/Pk

Order No.: 8E-S138-FGA

	SOLID	PHASE	EXTRA	CTION	(SPE)) PRODCEDURE:
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	shown below are for a 200 m		S .			
	will need to be adjusted for a	•		nass.		
Condition:						
Load:						
Sample pre-treatment:	and with 25 na/ml and 125 na/ml of continents		waanaatii salis Suuith S	150 ul of 50 mM codium	nhaanhata dibaaia bantahudu	ska mll compedicated
Mix briefly (3-5 sec).	ked with 25 ng/mL and 125 ng/mL of cortisone	and prednisolone	respectively) with 1	150 UL OI 50 IIIM SOCIUIII	priospriate dibasic neptanyura	te, pri unaujusteu.
Sample loading:						
· · · · · · · · · · · · · · · · · · ·	step above onto the Novum plate and apply a	short and gentle	oulse of vacuum (~	10" of Hg for 20 secs) u	ntil the sample has completel	entered the media.
Wait for 5 minutes						
Wash:						
***4311.						
Dry:						
D1 y .						
Elute:						
Final Prep and Analysis:						
Sample pre-treatment	n plasma (spiked with 25 ng/	ml and 125	ina/ml of co	ortisone and		
	, , ,					
Inject: 1 μL on HPLC E	lectrospray Mass Spec (ESMS	6) @ 0.0000	000000 (ar	nbient)		
ANALYTES:	Spiked Conc.	Log P	рКа	% Rec	%RSC	
	(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 support@phenomenex.com

