HPLC Application

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

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:	Tandem Mass Spec (MS-MS) @ (ambient)								
Analyst Note:	Strata X-C 10 mg Plate Protocol								
	Condition								
	500 μL methanol								
	Equilibrate								
	500uL water								
	Load								
	750 μL diluted serum								
	(375 µL 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 μL(3x125 μL) 5% ammonium hydroxide in acetonitrile:methanol(60:40)								
	Inject								
	1 µL								
	Note: Spiked conc. of analyte was 1 ng/mL serum								





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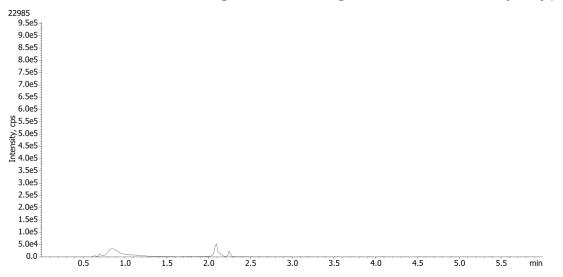
For more information contact your Phenomenex Representative at info@phenomenex.com



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ANALYTES:

1 Procaine

Retention Time: 2.09 min

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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 EXTRACTION (SPE) PRODCEDURE:

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 mass.

Condition:

Load:

Dilute 375µL serum with 375µL of 4% Phosphoric acid in water.

Dilute 150 uL of human plasma (spiked with 25 ng/mL and 125 ng/mL of cortisone and prednisolone respectively) with 150 uL of 50 mM sodium phosphate dibasic heptahydrate, 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 pulse of vacuum (~ 10" of Hg for 20 secs) until the sample has completely entered the media.

Wait for 5 minutes

Wash:

Dry:

Elute:

Final Prep and Analysis:

No dry down step was performed. 1μ L of final eluent was direct injected. Inject: 1μ L on HPLC Tandem Mass Spec (MS-MS) @ (ambient)

ANALYTES:	Spiked Conc.	Log P	рКа	% Rec	%RSC
	(ng/mL)				(n=0)
1 Procaine	1				

Note: 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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