HPLC Application

ID No.: 22982



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

Kinetex® 2.6 μm 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 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 $\mu L(3x125~\mu L)$ 5% ammonium hydroxide in acetonitrile:methanol(60:40)

Inject 1 μL

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



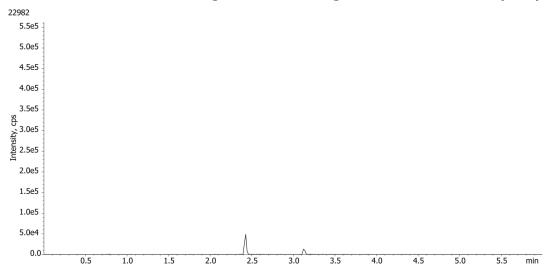
Products used in this application:



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ANALYTES:

1 Timolol

Retention Time: 2.42 min

Sample Preparation Details for HPLC Application ID No.: 22982



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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

	TION (SPE) PRODCEDU					
Note: The solvent volumes	shown below are for a 10 mg	g bed mass.				
The solvent volumes	will need to be adjusted for a	a smaller or l	arger bed i	mass.		
Condition:						
Load:						
Mix briefly (3-5 sec). Sample loading:	red with 25 ng/mL and 125 ng/mL of cortisone					
Load the sample from pre-treatment	step above onto the Novum plate and apply a	a short and gentle p	ulse of vacuum (~	- 10" of Hg for 20 secs) u	ntil the sample has complet	ely entered the media.
Wait for 5 minutes						
Wash:						
Dry:						
Dry:						
Elute:						
Final Prep and Analysis:						
	performed. 1µL of final elue	-				
Inject: 1 µL on HPLC To	andem Mass Spec (MS-MS) ((ambient)			
ANALYTES:	Spiked Conc. (ng/mL)	Log P	pKa	% Rec	%RSC (n=0)	
1 Timolol	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 info@phenomenex.com

