# **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  $\mu L$  diluted serum

(375  $\mu$ 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:

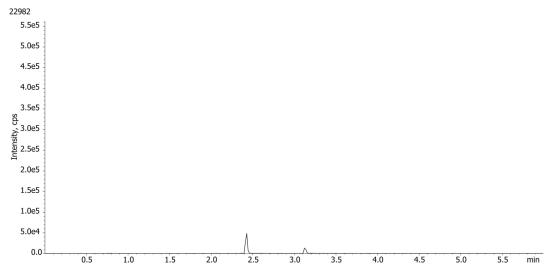




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#### **ANALYTES:**

1 Timolol

Retention Time: 2.42 min

# Sample Preparation Details for HPLC Application ID No.: 22982



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

#### **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 (SP	-					
<b>Note:</b> The solvent volumes shown belo						
The solvent volumes will need to	be adjusted for a s	smaller or la	ger bed ma	iss.		
Condition:						
Load:						
Dilute 150 uL of human plasma (spiked with 25 ng/mL Mix briefly (3-5 sec). Sample loading: Load the sample from pre-treatment step above onto t	<u>.</u>		.,			· · ·
Wait for 5 minutes						
Wash:						
Dry:						
Elute:						
Final Prep and Analysis:						
No dry down step was performed.	1μL of final eluent	was injected	i.			
Inject: 1 μL on HPLC Tandem Mas	s Spec (MS-MS) @	(ambient)				
ANALYTES:	Spiked Conc.	Log P	pKa	% Rec	%RSC	
1 Timolol	( <b>ng/mL)</b> 1				(n=0)	

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

