

Extraction of Timolol from Serum using Strata-X-C 10 mg 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 Profile:	Step No.	Time (min)	Pct A	Pct B
	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) @ 0.0000000000 (ambient)

Analyst Note: Strata X-C 10 mg Plate Protocol

Condition

500 µL methanol

Equilibrate

500µL 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

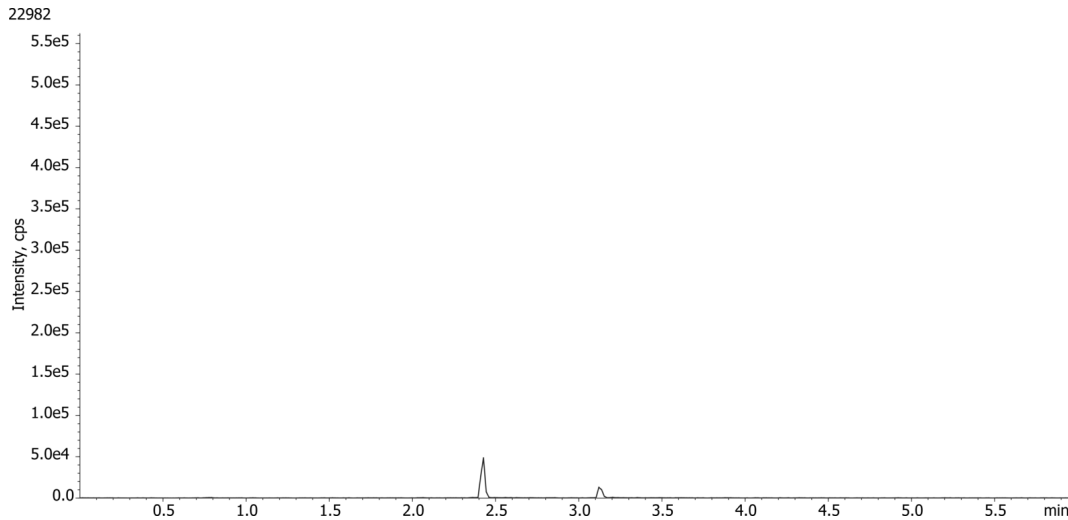
Note: Spiked conc. of analyte was 1 ng/mL serum



Products used in this application:



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



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 (SPE) PROCEDURE:

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:

Wash:

Dry:

Elute:

Final Prep and Analysis:

No dry down step was performed. 1µL of final eluent was injected.

Inject: 0 µL on HPLC Electrospray Mass Spec (ESMS) @ 0.0000000000 (ambient)

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

©2025 Phenomenex Inc. All rights reserved.

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



Phenomenex products are available worldwide.

www.phenomenex.com

support@phenomenex.com