HPLC Application

LC/MS/MS Analysis of Digoxin and Digitoxin in plasma (2.5 ng/mL) using Strata-X and Kinetex C8

Column:	Kinetev® 2 f	5 μm C8 100 Å, L0	Column 50 y	(2.1 mm Ea	3, , , , ,	J			
Dimensions:	50 x 2.1 mm								
Order No:	00B-4497-AN						Kinetex [®]		
Elution Type:	Gradient	v					Ultra-High Performance on Any LC System		
Eluent A:		onium acetate					Of Any Lo bystem		
Eluent B:		nium acetate in n	nothanal						
Gradient	Step No.	Time (min)	Pct A	Pct B					
Profile:		0	50	РСС В 50					
Prome:	1 2	2.5	0	100					
		2.5		50		Pr	roducts used in this application:		
	3		50						
	4	5	50	50					
Flow Rate:	400 µL/min						KINETEX.		
Col. Temp.:	ambient		(252.2.2)				TM TM		
Detection:		ometer (MS) @ ai	mu (350 °C)						
Detector Info:	<a <="" target="_blar</th><th>nk" th=""><th>cnoctromotors?ut</th><th>n compoign=20</th><th>0%20application%2</th><th>Ocearch & utm. cource</th><th></th>	cnoctromotors?ut	n compoign=20	0%20application%2	Ocearch & utm. cource				
1.3 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4	De4 3e4 7e4 5e4 4e4 3e4 2e4 1e4 0e4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0			2			App ID 19693		
	0.5	1.0 1.5	2.0	2.5 3.	0 3.5	4.0 4.5	min		

ANALYTES:

1 Digoxin

Retention Time: 1.9 min

- 2 Oleandrin Retention Time: 2.35 min
- 3 Digitoxin

Retention Time: 2.75 min

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breaking with tradition

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for HPLC Application ID No.: 19693



LC/MS/MS Analysis of Digoxin and Digitoxin in plasma (2.5 ng/mL) using Strata-X and Kinetex C8

PRODUCT DESCRIPTION:

Strata[™]-X 33 µm Polymeric Reversed Phase, 30 mg / 3 mL, Tubes , 50/Pk

Order No.: 8B-S100-TBJ

SOLID PHASE EXTRACTION (SPE) PRODCEDURE:

Note: The solvent volumes shown below are for a 30 mg bed mass.

The solvent volumes will need to be adjusted for a smaller or larger bed mass.

Condition:

Load:

Wash:

Dry:

10min at full vacuum

Elute:

Final Prep and Analysis:

Inject: 0 µL on HPLC Mass Spectrometer (MS) @ amu (350°C)

ANALYTES:	Spiked Conc. (ng/mL)	Log P	рКа	% Rec	%RSC (n=0)
1 Digoxin	2.5			87	(
2 Oleandrin	2.5				
3 Digitoxin	2.5			108	

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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