## **HPLC Application**

ID No.: 19691



### LC/MS/MS Analysis of Digoxin and Digitoxin in plasma (0.25 ng/mL) using Strata-X and Kinetex C8

**Column:** Kinetex® 2.6 μm C8 100 Å, LC Column 50 x 2.1 mm, Ea

Dimensions: 50 x 2.1 mm ID Order No: 00B-4497-AN Elution Type: Gradient

**Eluent A:** 10mM Ammonium acetate

**Eluent B:** 10mM Ammonium acetate in methanol

Gradient	Step No.	Time (min)	Pct A	Pct B
Profile:	1	0	50	50
	2	2.5	0	100
	3	2.51	50	50
	4	5	50	50

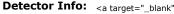
Kinetex®
Ultra-High Performance
on Any LC System

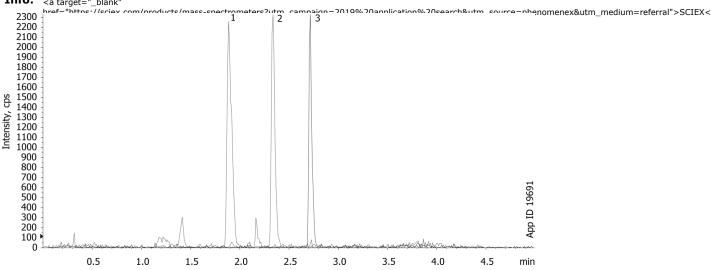
Products used in this application:



Flow Rate:  $400 \mu L/min$  Col. Temp.: ambient

**Detection:** Mass Spectrometer (MS) @ (350 °C)





#### **ANALYTES:**

**1** Digoxin

Retention Time: 1.9 min

2 Oleandrin

Retention Time: 2.35 min

3 Digitoxin

Retention Time: 2.75 min

©2025 Phenomenex Inc. All rights reserved.

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



# **Sample Preparation Details**

for HPLC Application ID No.: 19691



### LC/MS/MS Analysis of Digoxin and Digitoxin in plasma (0.25 ng/mL) using Strata-X and Kinetex C8

#### **PRODUCT DESCRIPTION:**

Strata<sup>™</sup>-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 ul. on HPLC Mass Spectrometer (MS) @ (350°C)

(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.

©2025 Phenomenex Inc. All rights reserved.

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

