

Removal of Phospholipids from Milk Sample Using Strata-X PRO With a Kinetex 2.6 µm C18 50 x 2.1 mm

Column: Kinetex® 2.6 µm C18 100 Å, LC Column 50 x 2.1 mm, Ea

Dimensions: 50 x 2.1 mm ID

Order No: 00B-4462-AN

Elution Type: Gradient

Eluent A: 0.1%Formic acid in Water

Eluent B: 0.1%Formic acid in Methanol

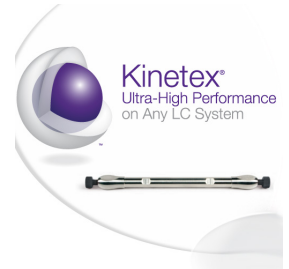
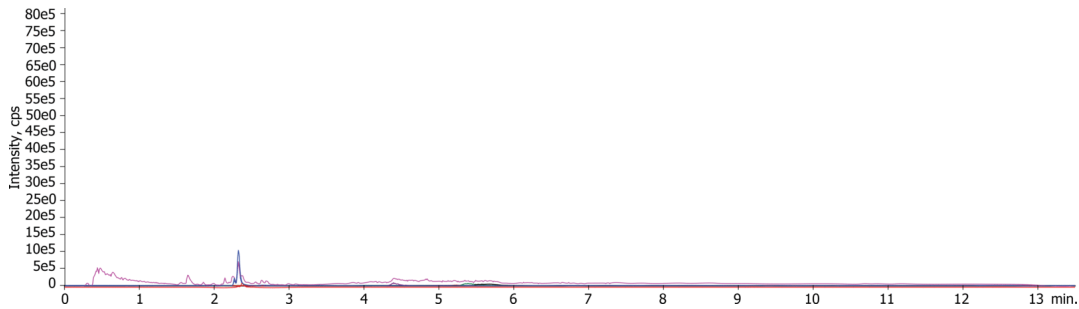
Gradient Profile:	Step No.	Time (min)	Pct A	Pct B
	1	0	60	40
	2	0.5	5	95
	3	11.5	5	95
	4	11.51	60	40
	5	13	60	40

Flow Rate: 0.4 mL/min

Col. Temp.: 45 °C

Detection: LC/MS/MS @ 0.0000000000 nm (nanometers) (30 °C)

Analyst Note: 2% liquid Milk (ALTA DENA DairyPure) utilized for sample prep extraction Analyte diluted with initial mobile phase



Products used in this application:



ANALYTES:

- 1 Lyso PC
Retention Time: 2.25 min
- 2 PC-1
Retention Time: 4.14 min
- 3 PC-2
Retention Time: 4.6 min



Sample Preparation Details

for HPLC Application ID No.: 25488

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PRODUCT DESCRIPTION:

Strata X Pro, 60mg/3mL, 50/Pk

Order No.: 8B-S536-UBJ

SOLID PHASE EXTRACTION (SPE) PROCEDURE:

Note: The solvent volumes shown below are for a 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:

To 1 mL of milk add 3 mL of 0.2% formic acid in Acetonitrile /Methanol (90:10). Mix/vortex for 15-20 secs. Centrifuge for 5 min at 10,000 rpm. Collect supernatant to perform SPE in next step.

Inject: 5 µL on HPLC LC/MS/MS @ 0.000000000 nm (nanometers) (30°C)

ANALYTES:

	Spiked Conc. (ng/mL)	Log P	pKa	% Rec	%RSC (n=0)
1 Lyso PC	0				
2 PC-1	0				
3 PC-2	0				

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



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