HPLC Application

ID No.: 25487



Extraction of Vet Drugs in Milk Using Strata-X PRO with a Kinetex 2.6 µm Biphenyl 50 x 3.0mm

Kinetex® 2.6 μm Biphenyl 100 Å, LC Column 50 x 3.0 mm, Ea

50 x 3 mm ID **Dimensions:** Order No: 00B-4622-Y0 Elution Type: Gradient

Eluent A: 0.1%Formic acid in Water Eluent B: 0.1%Formic acid in Methanol

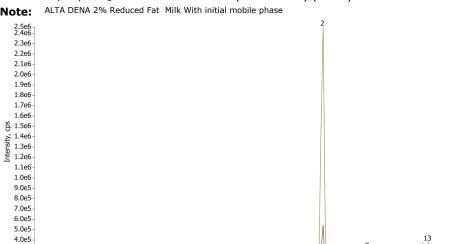
Gradient	Step No.	Time (min)	Pct A	Pct B
Profile:	1	0	95	5
	2	1.5	5	95
	3	3	5	95
	4	3.01	95	5
	5	4.5	95	5

Flow Rate: 0.5 mL/min Col. Temp.: 45 °C

> 3.0e5 2.0e5 1.0e5 0.0

Detection: LC/MS/MS @ 210.0000000000 nm (nanometers) (30 °C)

Analyst Note:





Products used in this application:





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ANALYTES:

- Sulfaguanidine
- 2 Lincomycin
- 3 Sulfadiazine
- Cephapirin 4
- 5 Sulfamerazine
- Sulfamethoxazole 6
- 7 Sulfamethizole
- 8 Cefalexin
- 9 Sulfamethazine
- 10 Cortisone
- 11 Cortisol
- **12** β-methasone
- 13 Prednisolone

Sample Preparation Details

for HPLC Application ID No.: 25487



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PRODUCT DESCRIPTION:

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

Order No.: 8B-S536-UBJ

SOLID PHASE EXTRACTION (SPE) PRODCEDURE:

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 @ 210.0000000000 nm (nanometers) (30°C)

ANAI	YTES:	Spiked Conc. (ng/mL)	Log P	pKa	% Rec	%RSC (n=0)
1	Sulfaguanidine	50			46	
2	Lincomycin	50			92	
3	Sulfadiazine	50			38	
4	Cephapirin	50			76	
5	Sulfamerazine	50			44	
6	Sulfamethoxazole	50			53	
7	Sulfamethizole	50			45	
8	Cefalexin	50			66	
9	Sulfamethazine	50			59	
10	Cortisone	50			83	
11	. Cortisol	50			95	
12	.β-methasone	50			97	
13	Prednisolone	50			92	

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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