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

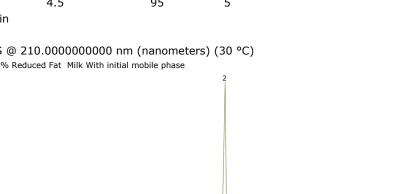
Gradient	Step No.	Time (min)	Pct A	Pct B
Profile:	1	0	95	5
	2	1.5	5	95
	3	3	5	95
	4	3.01	95	5
	5	4.5	95	5

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

> 2.3e6 2.2e6 2.1e6 2.0e6 1.8e6 1.7e6 1.6e6 දූ 1.5e6 ..5e6 1.4e6-يخ 1.2e6 1.1e6 1.0e6 9.0e5 8.0e5 7.0e5 6.0e5 5.0e5 4.0e5 3.0e5 2.0e5 1.0e5 0.0

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

ALTA DENA 2% Reduced Fat Milk With initial mobile phase **Analyst Note:**



Products used in this application:



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

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



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

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)

YTES:	-		Log P	pKa	% Rec	%RSC (n=0)
Sulfaguanidine	5	50			46	
Lincomycin	5	50			92	
Sulfadiazine	5	50			38	
Cephapirin	5	50			76	
Sulfamerazine	5	50			44	
Sulfamethoxazole	5	50			53	
Sulfamethizole	5	50			45	
Cefalexin	5	50			66	
Sulfamethazine	5	50			59	
Cortisone	5	50			83	
Cortisol	5	50			95	
β-methasone	5	50			97	
Prednisolone	5	50			92	
	Sulfaguanidine Lincomycin Sulfadiazine Cephapirin Sulfamerazine Sulfamethoxazole Sulfamethizole Cefalexin Sulfamethazine Cortisone Cortisol β-methasone	Sulfaguanidine Lincomycin Sulfadiazine Cephapirin Sulfamerazine Sulfamethoxazole Sulfamethizole Cefalexin Sulfamethazine Cortisone Cortisol β-methasone	(ng/mL)Sulfaguanidine50Lincomycin50Sulfadiazine50Cephapirin50Sulfamerazine50Sulfamethoxazole50Sulfamethizole50Cefalexin50Sulfamethazine50Cortisone50Cortisol50β-methasone50	(ng/mL)Sulfaguanidine50Lincomycin50Sulfadiazine50Cephapirin50Sulfamerazine50Sulfamethoxazole50Sulfamethizole50Cefalexin50Sulfamethazine50Cortisone50Cortisol50β-methasone50	(ng/mL)Sulfaguanidine50Lincomycin50Sulfadiazine50Cephapirin50Sulfamerazine50Sulfamethoxazole50Sulfamethizole50Cefalexin50Sulfamethazine50Cortisone50Cortisol50β-methasone50	(ng/mL) Sulfaguanidine 50 46 Lincomycin 50 92 Sulfadiazine 50 38 Cephapirin 50 76 Sulfamerazine 50 44 Sulfamethoxazole 50 53 Sulfamethizole 50 45 Cefalexin 50 66 Sulfamethazine 50 59 Cortisone 50 83 Cortisol 50 95 β-methasone 50 97

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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