### **HPLC Application**

ID No.: 21872



Kinetex<sup>®</sup>

Ultra-High Performance on Any LC System

### Extraction of Phenylbutazone from Beef Using Strata-X-A on Kinetex 2.6u XB-C18 50x2.1 by LC/MS/MS

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

**Dimensions:** 50 x 2.1 mm ID Order No: 00B-4496-AN **Elution Type:** Gradient

Eluent A: 0.1% Formic Acid in DI Water Eluent B: 0.1% Formic Acid in Methanol

Gradient	Step No.	Time (min)	Pct A	Pct B
Profile:	1	0	50	50
	2	0.5	50	50
	3	2	5	95
	4	3.5	5	95
	5	3.51	50	50
	6	5	50	50

Products used in this application:



Flow Rate: 0.45 mL/min

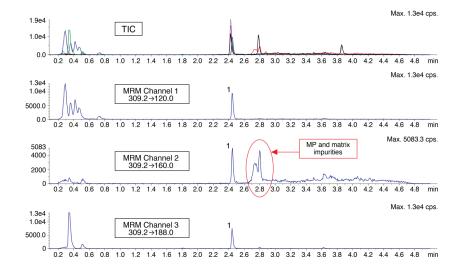
Col. Temp.: 45 °C

**Detection:** Electrospray Mass Spec (ESMS) @ 0.000000000 (ambient)

Mass spec conditions: Analyst Note:

API 4000, ESI TurboIon Spray, + Ionization;

CAD: 6.00 CUR: 20.00 GS1: 50.00 GS2: 50.00 5500.00 IS: 600.00 TEM: ihe: ON DP 50.00 ΕP 10.00 21872



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# **HPLC Application** ID No.: **21872**



Extraction of Phenylbutazone from Beef Using Strata-X-A on Kinetex 2.6u XB-C18 50x2.1 by LC/MS/MS **ANALYTES:** 

Phenylbutazone

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## Sample Preparation Details for HPLC Application ID No.: 21872



### Extraction of Phenylbutazone from Beef Using Strata-X-A on Kinetex 2.6u XB-C18 50x2.1 by LC/MS/MS

#### **PRODUCT DESCRIPTION:**

Strata<sup>™</sup>-X-A 33 µm Polymeric Strong Anion, 100 mg / 3 mL, Tubes , 50/Pk

Order No.: 8B-S123-EBJ

SOLID	PHASE	<b>EXTR</b>	ACTION	(SPE)	) PRODCEDURI	Ε

<b>SOLID PHASE EXTRACTIO</b>	N (SPE) PRODCEDU	RE:				
Note: The solvent volumes sho	wn below are for a 100 m	ng bed mass				
The solvent volumes will		-		mass.		
Condition:						
Condition:						
Load:						
Sample Pretreatment:						
1. In an Erleneyer flask (or similar), combi	ne 2 $\pm 0.1$ g sample (well-homogenized	ground beef or por	k sausage) with 2 i	mL 0.1N NaOH and 50 ul	of 4 ug/mL Int Std (phenylbutazone-D10) solu	tion
<ol><li>Cap the flasks and mix vigorously for at</li></ol>	least 10 sec					
3. Add 8 mL 100% MeOH to the flask and	cap the vessel					
<ol><li>Place the flasks securely on a lab shake</li></ol>		=				
5. Transfer the contents of the flask into a			)-4500 rpm			
<ol><li>Remove 2 mL of supernatant and combi</li><li>Proceed to SPE method</li></ol>	ne with 2 mL DI water into a glass tube	and mix				
7111 occes to St E mediod						
Wash:						
Dry:						
5 mins at 10" of Hg						
5 mm 5 dt 15 - 51 mg						
Elute:						
Final Prep and Analysis:						
Extraction Procedure: 1. Condition a Strata-X-A,	100 mg/6 mL with 3 mL	100% MeOH	followed b	y 3 mL DI wate	r	
Inject: 5 μL on HPLC Electi	ospray Mass Spec (ESMS	6) @ 0.0000	000000 (ar	mbient)		
ANALYTES:	Spiked Conc.	Log P	рКа	% Rec	%RSC	
ANALTIES:	(ng/mL)	LUG P	μKa	70 NEC	(n=0)	
<b>1</b> Phenylbutazone	25			101	-	

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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