HPLC Application ID No.: **20028**



Penicillins in Meat by LC/MS/MS

Gemini® 3 µm C18 110 Å, LC Column 150 x 4.6 mm, Ea

150 x 4.6 mm ID **Dimensions:** Order No: 00F-4439-E0 **Elution Type:** Gradient

Eluent A: 0.1% Ammonia in water

Eluent B: 95% Acetronitrile, 5% water and 0.1% ammonia

Liuciit D.	33 % Acctromitme, 3 % water and 0.1 % armnorma						
Gradient	Step No.	Time (min)	Pct A	Pct B			
Profile:	1	0	98	2			
	2	2	98	2			
	3	2.42	90	10			
	4	6	50	50			
	5	6.1	0	100			
	6	6.6	0	100			
	7	6.8	98	2			
	8	8	98	2			



Products used in this application:



Flow Rate: 0.8 mL/min Col. Temp.: 40 °C

Detection: Tandem Mass Spec (MS-MS) @ -4500 V (600 °C)

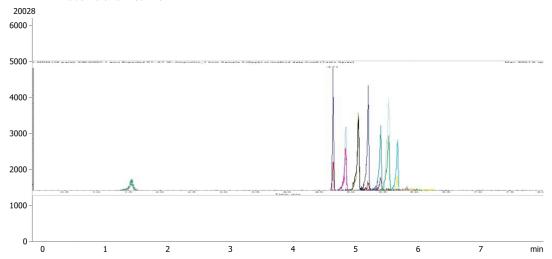
Detector Info: 3200 QTRAP

This separation uses IMethod Kit Part Number KH0-9047 Analyst Note:

 $SecurityGuard \ ^{\text{\tiny TM}}\ Guard\ Cartridge\ System\ extends\ column\ lifetime.$

- SecurityGuard Cartridges, Gemini C18 4 x 3.0mm ID, 10/Pk Part No.: AJ0-7597

- Holder Part No.: KJ0-4282



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ANALYTES:

- Amoxicillin
- 2 Ampicillin
- 3 Penicillin G
- Penicillin V 4
- Oxacillin 5
- Cloxacillin 6
- 7 Nafcillin
- Dicloxacillin

Sample Preparation Details

for HPLC Application ID No.: 20028



Penicillins in Meat by LC/MS/MS

PRODUCT DESCRIPTION:

Strata® C18-E (55 µm, 70 Å), 200 mg / 3 mL, Tubes , 50/Pk

Order No.: 8B-S001-FBJ

SOLID PHASE EXTRACTION (SPE) PRODCEDURE:

Note: The solvent volumes shown below are for a 200 mg bed mass.

The solvent volumes will need to be adjusted for a smaller or larger bed mass.

Condition:	
Load:	
Homogenize the sample using an electric mincer. Measure 4 g of the homogenized sample into an 85 mL centrift L of acetonitrile/water (10:1). Mix for 1 min using an Ultra-Turrax mixer at a velocity setting of 2. Agitate further	
Wash:	
Dry:	
Elute:	
Final Prep and Analysis:	
The equilibration time at conditon 0 was 4 minutes before each injection	

The equilibration time at conditon 0 was 4 minutes before each injection. Inject: 50 μL on HPLC Tandem Mass Spec (MS-MS) @ -4500 V (600°C)

ANALYTES:	Spiked Conc. (ng/mL)	Log P	pKa	% Rec	%RSC (n=0)
1 Amoxicillin	0				
2 Ampicillin	0				
3 Penicillin G	0				
4 Penicillin V	0				
5 Oxacillin	0				
6 Cloxacillin	0				
7 Nafcillin	0				
8 Dicloxacillin	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.

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



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