

Sulfonamides in Meat by LC/MS/MS

Column: Gemini® 3 µm C18 110 Å, LC Column 50 x 4.6 mm, Ea**Dimensions:** 50 x 4.6 mm ID**Order No:** 00B-4439-E0**Elution Type:** Gradient**Eluent A:** 0.1% Formic Acid in Water**Eluent B:** Acetonitrile

Gradient Profile:	Step No.	Time (min)	Pct A	Pct B
	1	0	98	2
	2	2	98	2
	3	2.1	85	15
	4	6.5	50	50
	5	7.1	0	100
	6	8	0	100
	7	8.1	98	2
	8	10	98	2

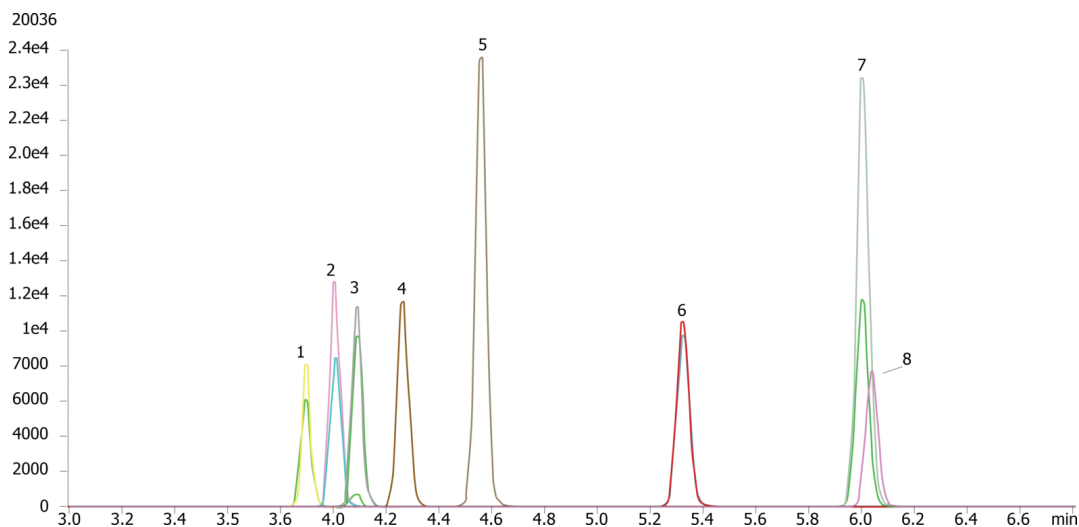
Flow Rate: 800 µL/min**Col. Temp.:** ambient**Detection:** Tandem Mass Spec (MS-MS) @ (300 °C)**Detector Info:** SCIEX< SecurityGuard™ Guard Cartridge System extends column lifetime.

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

- Holder Part No.: KJ0-4282



Products used in this application:



ANALYTES:

- 1 Sulfadiazine
- 2 Sulfathiazole
- 3 Sulfapyridine
- 4 Sulfamerazine
- 5 Sulfamethazine
- 6 Sulfamethoxazole
- 7 Sulfadimethoxine
- 8 Sulfaquinoxaline



Sample Preparation Details

for HPLC Application ID No.: 20036

Sulfonamides in Meat by LC/MS/MS

PRODUCT DESCRIPTION:

StrataTM-X 33 μ m Polymeric Reversed Phase, 60 mg / 3 mL, Tubes , 50/Pk

Order No.: 8B-S100-UBJ

SOLID PHASE EXTRACTION (SPE) PROCEDURE:

Note: The solvent volumes shown below are for a 60 mg bed mass.

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

Condition:

Load:

Wash:

Dry:

2min at 10inches Hg

Elute:

Final Prep and Analysis:

Inject: 50 μ L on HPLC Tandem Mass Spec (MS-MS) @ (300°C)

ANALYTES:	Spiked Conc. (ng/mL)	Log P	pKa	% Rec	%RSC (n=0)
1 Sulfadiazine	0				
2 Sulfathiazole	0				
3 Sulfapyridine	0				
4 Sulfamerazine	0				
5 Sulfamethazine	0				
6 Sulfamethoxazole	0				
7 Sulfadimethoxine	0				
8 Sulfaquinoxaline	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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