

Multiclass Antibiotics Screening of Kidney Juice, Serum, Milk and Honey by LC/MS/MS

Column: Gemini® 3 µm C18 110 Å, LC Column 50 x 2 mm, Ea

Dimensions: 50 x 2 mm ID

Order No: 00B-4439-B0

Elution Type: Gradient

Eluent A: Water + 0.1% Formic Acid

Eluent B: Methanol + 0.1% Formic Acid

Gradient Profile:	Step No.	Time (min)	Pct A	Pct B
	1	0	98	2
	2	7.27	20	80
	3	7.37	1	99
	4	11	98	2
	5	15	98	2
	6	11	98	2
	7	15	98	2

Flow Rate: 0.5 mL/min

Col. Temp.: 40 °C

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

Detector Info: <a target="_blank"

Analyst Note: href="https://sciex.com/products/mass-spectrometers?utm_campaign=2019%20application%20search&utm_source=phenomenex&utm_medium=referral">SCIE
Sample Prep Steps:

1. Weigh 1 g of homogenized beef kidney sample, kidney juice, or serum into a 50 mL FEP (fluorinated ethylene propylene) tube. Alternatively you can use a disposable polypropylene Corning tube.
2. Add 5 µL of the internal standard work solution.
3. Add 2 mL of water and 8 mL of acetonitrile
4. Mix briefly using a vortex mixer, and then shake for five minutes.
5. Centrifuge at 3450 rcf for five minutes.
6. Decant the supernatant into a 50 mL tube with 500 mg of Septra C18-E sorbent.
7. Mix briefly using a vortex mixer and shake for 30 seconds.
8. Centrifuge at 3450 rcf for one minute.
9. Place a 5 mL aliquot of the supernatant into a graduated tube.
10. Evaporate down to less than 1 mL.
11. Make up the volume to 1 mL with water.
12. Filter the extract through a 0.45 µm Phenex™ RC syringe filter (part no. AF0-8103-12) and then transfer to a Verex™ autosampler vial (part no. ARO-9925-13).

Note: The extracts are now ready for LC/MS/MS analysis.

SecurityGuard™ Guard Cartridge System extends column lifetime.

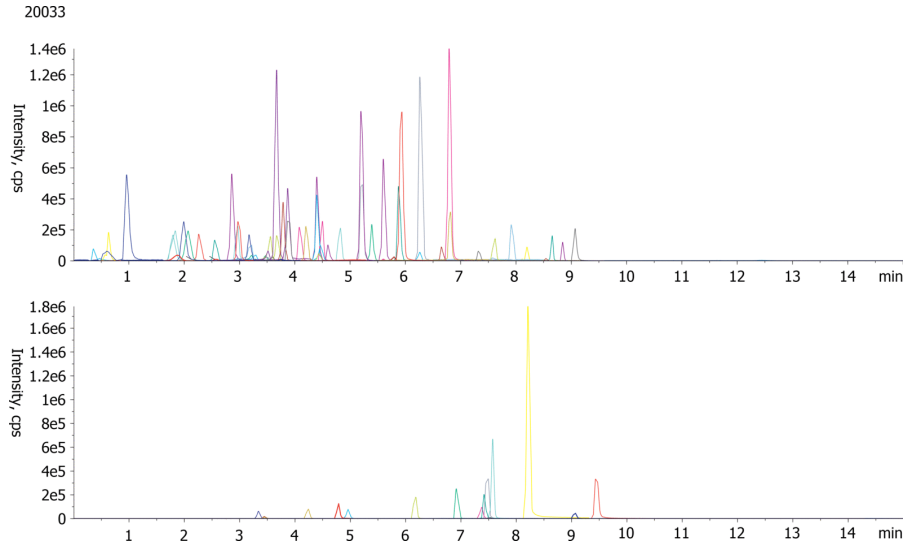
- SecurityGuard Cartridges, Gemini C18 4 x 2.0mm ID, 10/PK Part No.: AJ0-7596
- Holder Part No.: KJ0-4282



Products used in this application:



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ANALYTES:

1 Florfenicol amine	41 Chlorotetracycline	81 Ibuprofen
2 Sulfanilamide	42 Sulfachloropyridazine	82 Diclofenac
3 Sulfaguanidine	43 Sulfamethoxazole	83 Indomethacin
4 Tetramisole	44 Florfenicol	84 Triclabendazole
5 Amoxicillin	45 Sulfadoxine	85 Tolfenamic acid
6 Sulfacetamide	46 Clindamycin	86 Novobiocin
7 Lincomycin	47 Tilmicosin	87 Niclosamide
8 Metronidazole	48 Sulfisoxazole	88 Decoquinate
9 Dimetridazole	49 Carbadox	89 Sulfasalazine
10 Albendazole amino sulfone	50 6-phenyl-2-thiouracil	90 Monensin
11 Ronidazole	51 Albendazole sulfoxide	91 Narasin
12 Minocycline	52 Chloramphenicol	92 Lasalocid
13 Sulfadiazine	53 Doxycycline	93 Lasalocid
14 Thiabendazole	54 Bacitracin	94 Rafoxanide
15 Sulfathiazole	55 2-Quinoxalinecarboxylic acid	
16 Sulfapyridine	56 Oxolinic acid	
17 Desethylene ciprofloxacin	57 Sulfadimethoxine	
18 Ractopamine	58 Albendazole sulfone	
19 Ofloxacin	59 Erythromycin	
20 Sulfamerazine	60 Sulfaquinoloxaline	
21 Enoxacin	61 Tylosin	
22 Tetracycline	62 Fenbendazole sulfoxide	
23 Norfloxacin	63 Josamycin	
24 Ampicillin	64 Fenbendazole sulfone	
25 Ciprofloxacin	65 Albendazole	
26 Thiamphenicol	66 Flumequine	
27 Lomefloxacin	67 Sulfanitran	
28 Enrofloxacin	68 Ceftiofur	
29 Oxytetracycline	69 Mebendazole	
30 Danofloxacin	70 Oxyphenbutazone	
31 Orbifloxacin	71 Fenbendazole	
32 Difloxacin	72 Ketoprofen	
33 Sarafloxacin	73 Penicillin G	
34 Sulfamethazine-d4	74 Naproxen	
35 Sulfamethazine	75 Phenylbutazone	
36 2-mercaptobenzimidazole	76 Flunixin	
37 Sulfamethizole	77 Nicarbazin	
38 Iprnidazole-OH	78 Etodolac	
39 Sulfamethoxyipyridazine	79 Dipyrone	
40 Spiramycin	80 Cloxacillin	

