

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.

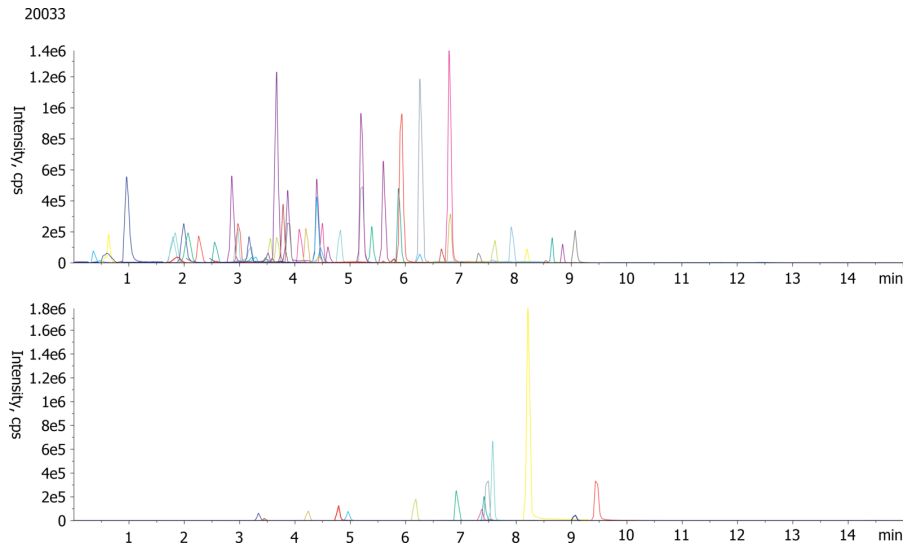
- SecurityGuard Cartridges, Gemini C18 4 x 2.0mm ID, 10/PK Part No.: AJ0-7596
- Holder Part No.: KJ0-4282



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	Dipyron		
40	Spiramycin	80	Cloxacillin		

