

## 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">SCIEX<br/>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.

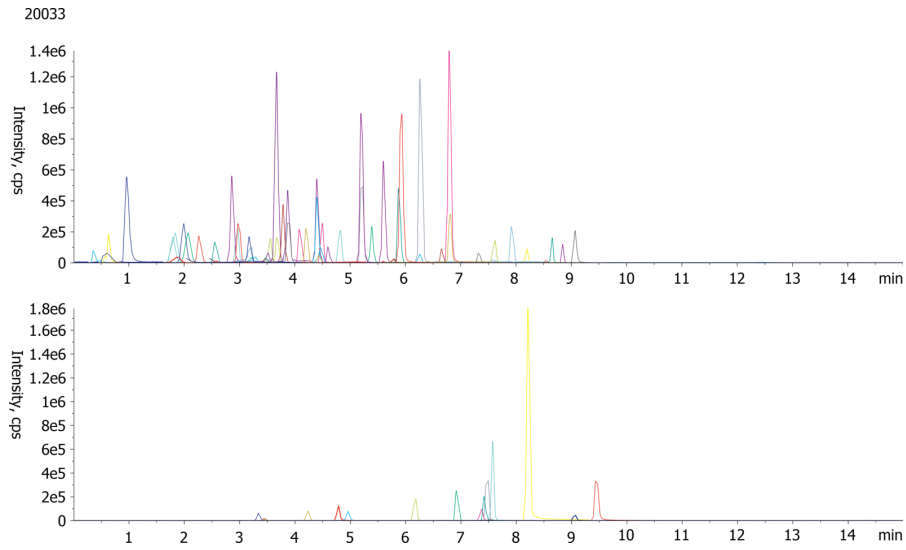
- SecurityGuard Cartridges, Gemini C18 4 x 2.0mm ID, 10/PK Part No.: AJ0-7596
- Holder Part No.: KJ0-4282



Products used in this application:



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### ANALYTES:

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

