

# A Rapid iMethod™ Test for Veterinary Antibiotic LC/MS/MS Library Version 1.1 for Cliquid® Software

The following description outlines the 169 veterinary antibiotics available in the MRM catalogue and LC/MS/MS library. This library and MRM catalogue, created using certified reference materials, can be used stand-alone to create custom screening and/or quantitation methods or in conjunction with the iMethod™ Test for Antibiotic Screening. The iMethod™ Test provides a pre-configured test for the screening of 76 antibiotics in positive mode and 17 antibiotics in negative mode via an MRM triggered EPI workflow available on QTRAP® series LC/MS/MS systems. This library is verified for use on AB SCIEX 3200 QTRAP®, 4000 QTRAP® and AB SCIEX QTRAP® 5500 LC/MS/MS Systems.

The MRM catalogue and spectral library both contain information on the most common antibiotics and their metabolites that are required to be monitored in meat and other food products. The MRM catalogue contains up to three transitions per compound. Each compound in the library has individual spectra acquired using three distinct collision energies (20 eV, 35 eV, 50 eV), as well as a single spectra representing the sum of all three collision energies. If compounds ionize in both polarities, spectra for both

are also included, bringing the potential total number of spectra per compound to eight.

The MRM catalogue can be used to build methods without the need to re-infuse standards and optimize MRM transitions for a given compound. Screening and / or quantitation methods can be created for use with either an MRM triggered EPI workflow, for use on QTRAP® LC/MS/MS instruments, or for traditional quantitation where the ratio of the response of two or more transitions are used for compound confirmation. The latter approach can be performed on either an AB SCIEX triple quadrupole or a QTRAP® series instrument. Users simply need to select the compounds of interest as well as the number of transitions to be monitored from the MRM catalogue. Once selected, the Cliquid® Software automatically creates the acquisition and processing methods.

The following is a list of the 169 antibiotics currently in the library. Please note that this library is continuously being expanded to include additional compounds.

Compound Name	CompoundClass	Formula	MW	CAS#	# of Spectra
<i>2-Amino-5-benzoylbenzimidazole</i>	Benzimidazole	C <sub>14</sub> H <sub>11</sub> N <sub>3</sub> O	237.0	52329-60-9	4
<i>2-Aminoflubendazole</i>	Benzimidazole	C <sub>14</sub> H <sub>10</sub> FN <sub>3</sub> O	255.0	82050-13-3	4
<i>2-Hydroxymethyl-1-methyl-5-nitro-imidazol (HMMNI)</i>	Nitroimidazole	C <sub>5</sub> H <sub>7</sub> N <sub>3</sub> O <sub>3</sub>	157.0	936-05-0	4
<i>2-mercaptobenzimidazole</i>	Benzimidazole	C <sub>7</sub> H <sub>6</sub> N <sub>2</sub> S	150.0	583-39-1	4
<i>2-Nitrobenzaldehyde Semicarbazone</i>	Nitrofurane	C <sub>8</sub> H <sub>8</sub> N <sub>4</sub> O <sub>3</sub>	208.0	16004-43-6	4
<i>2-Nitrobenzaldehyde Semicarbazone-15N2-C13</i>	Nitrofurane	<sup>13</sup> C <sup>15</sup> N <sub>2</sub> C <sub>7</sub> H <sub>8</sub> N <sub>2</sub> O <sub>3</sub>	211.0		4
<i>2-NP-AHD</i>	Nitrofurane	C <sub>10</sub> H <sub>8</sub> N <sub>4</sub> O <sub>4</sub>	248.0	623145-57-3	4
<i>2-NP-AHD-13C3</i>	Nitrofurane	<sup>13</sup> C <sub>3</sub> C <sub>7</sub> H <sub>8</sub> N <sub>4</sub> O <sub>4</sub>	251.0		4
<i>2-NP-AMTZ</i>	Nitrofurane	C <sub>15</sub> H <sub>18</sub> N <sub>4</sub> O <sub>5</sub>	334.1	183193-59-1	4
<i>2-NP-AMTZ-D5</i>	Nitrofurane	C <sub>15</sub> D <sub>5</sub> H <sub>13</sub> N <sub>4</sub> O <sub>5</sub>	339.2		4
<i>2-NP-AOZ</i>	Nitrofurane	C <sub>10</sub> H <sub>9</sub> N <sub>3</sub> O <sub>4</sub>	235.0	19687-73-1	4
<i>2-NP-AOZ-D4</i>	Nitrofurane	C <sub>10</sub> H <sub>5</sub> D <sub>4</sub> N <sub>3</sub> O <sub>4</sub>	239.1		4
<i>2-quinoxalinecarboxylic acid</i>	Antibiotic	C <sub>9</sub> H <sub>6</sub> N <sub>2</sub> O <sub>2</sub>	174.0	879-65-2	4
<i>6-phenyl-2-thiouracil</i>	Thyrostatica	C <sub>10</sub> H <sub>8</sub> N <sub>2</sub> OS	204.1	36822-11-4	4
<i>Albendazole</i>	Benzimidazole	C <sub>12</sub> H <sub>15</sub> N <sub>3</sub> O <sub>2</sub> S	265.0	54965-21-8	4
<i>Albendazole Sulfone</i>	Benzimidazole	C <sub>12</sub> H <sub>15</sub> N <sub>3</sub> O <sub>4</sub> S	297.0	76567-28-7	4

Compound Name	CompoundClass	Formula	MW	CAS#	# of Spectra
<i>Albendazole Sulfoxide</i>	Benzimidazole	C <sub>12</sub> H <sub>15</sub> N <sub>3</sub> O <sub>3</sub> S	281.0	54029-12-8	4
<i>Albendazole-2-aminosulfone</i>	Benzimidazole	C <sub>10</sub> H <sub>13</sub> N <sub>3</sub> O <sub>2</sub> S	239.0	80983-34-2	4
<i>Amoxicillin</i>	B-Lactam	C <sub>16</sub> H <sub>19</sub> N <sub>3</sub> O <sub>5</sub> S	365.1	26787-78-0	4
<i>Ampicillin</i>	B-Lactame	C <sub>16</sub> H <sub>19</sub> N <sub>3</sub> O <sub>4</sub> S	349.1	69-53-4	8
<i>Amprolium</i>	Coccidiostat	C <sub>14</sub> H <sub>18</sub> N <sub>4</sub>	242.1	137-88-2	4
<i>Aprinocid</i>	Coccidiostat	C <sub>12</sub> H <sub>9</sub> ClFN <sub>5</sub>	277.0	55779-18-5	4
<i>Bacitracin</i>	Antibiotic	C <sub>66</sub> H <sub>103</sub> N <sub>17</sub> O <sub>16</sub> S	1421.7	22601-59-8	4
<i>Brilliant green</i>	Triarylmethanfarbstoffe	C <sub>27</sub> H <sub>33</sub> N <sub>2</sub>	385.2	633-03-4 (C.I. 42040)	4
<i>Cambendazole</i>	Benzimidazole	C <sub>14</sub> H <sub>14</sub> N <sub>4</sub> O <sub>2</sub> S	302.0	26097-80-3	4
<i>Carbadox</i>	Anti parasite	C <sub>11</sub> H <sub>10</sub> N <sub>4</sub> O <sub>4</sub>	262.0	6804-07-5	4
<i>Cefazolin</i>	Cephalosporine	C <sub>14</sub> H <sub>14</sub> N <sub>8</sub> O <sub>4</sub> S <sub>3</sub>	454.0	27164-46-1	4
<i>Cefoperazone</i>	Cephalosporine	C <sub>25</sub> H <sub>27</sub> N <sub>9</sub> O <sub>8</sub> S <sub>2</sub>	645.1	62893-20-3	4
<i>Ceftiofur</i>	Antibiotic	C <sub>19</sub> H <sub>17</sub> N <sub>5</sub> O <sub>7</sub> S <sub>3</sub>	523.0	80370-57-6	4
<i>Chloramphenicol</i>	Amphenicol	C <sub>11</sub> H <sub>12</sub> Cl <sub>2</sub> N <sub>2</sub> O <sub>5</sub>	322.0	56-75-7	4
<i>Chlormadinone acetate</i>	Acetylgestagene	C <sub>23</sub> H <sub>29</sub> O <sub>4</sub> <sup>37</sup> Cl	404.1	302-22-7	4
<i>Chlortetracycline</i>	Tetracycline	C <sub>22</sub> H <sub>23</sub> ClN <sub>2</sub> O <sub>8</sub>	478.1	57-62-5	4
<i>Cinoxacin</i>	Fluorchinolone	C <sub>12</sub> H <sub>10</sub> N <sub>2</sub> O <sub>5</sub>	262.0	28657-80-9	4
<i>Ciprofloxacin</i>	Fluorchinolone	C <sub>17</sub> H <sub>18</sub> FN <sub>3</sub> O <sub>3</sub>	331.1	85721-33-1	4
<i>Clindamycin</i>	Macrolide	C <sub>18</sub> H <sub>33</sub> ClN <sub>2</sub> O <sub>5</sub> S	424.1	18323-44-9	4
<i>Clopidol</i>	Coccidiostat	C <sub>7</sub> H <sub>7</sub> Cl <sub>2</sub> NO	190.9	2971-90-6	4
<i>Closantel</i>	Benzimidazole	C <sub>22</sub> H <sub>14</sub> Cl <sub>2</sub> N <sub>2</sub> O <sub>2</sub>	661.8	57808-65-8	4
<i>Cloxacillin</i>	B-Lactame	C <sub>19</sub> H <sub>18</sub> ClN <sub>3</sub> O <sub>5</sub> S	435.0	61-72-3	8
<i>Danofloxacin</i>	Fluorchinolone	C <sub>19</sub> H <sub>20</sub> FN <sub>3</sub> O <sub>3</sub>	357.1	112398-08-0	4
<i>Dapsone</i>	Sulfonamide	(H <sub>2</sub> NC <sub>6</sub> H <sub>4</sub> ) <sub>2</sub> SO <sub>2</sub>	248.0	80-08-0	4
<i>Decoquinatate</i>	Coccidiostat	C <sub>24</sub> H <sub>35</sub> NO <sub>5</sub>	417.2	18507-89-6	4
<i>Demeclocycline</i>	Tetracycline	C <sub>21</sub> H <sub>21</sub> ClN <sub>2</sub> O <sub>8</sub>	464.0	127-33-3	4
<i>Desethylene Ciprofloxacin</i>	Fluoroquinolone	C <sub>15</sub> H <sub>16</sub> FN <sub>3</sub> O <sub>3</sub>	305.1	103222-12-4	4
<i>Diaveridine</i>	Coccidiostat	C <sub>13</sub> H <sub>16</sub> N <sub>4</sub> O <sub>2</sub>	260.1	5355-16-8	4
<i>Diclofenac</i>	NSAID	C <sub>14</sub> H <sub>11</sub> Cl <sub>2</sub> NO <sub>2</sub>	295.0	15307-86-5	4
<i>Dicloxacillin</i>	B-Lactame	C <sub>19</sub> H <sub>17</sub> Cl <sub>2</sub> N <sub>3</sub> O <sub>5</sub> S	469.0	3116-76-5	4
<i>Difloxacin</i>	Fluorchinolone	C <sub>21</sub> H <sub>19</sub> F <sub>2</sub> N <sub>3</sub> O <sub>3</sub>	399.1	98106-17-3	4
<i>Dimetridazole</i>	Nitroimidazole	C <sub>5</sub> H <sub>7</sub> N <sub>3</sub> O <sub>2</sub>	141.0	551-92-8	4
<i>Dipyrrone</i>	NSAID	C <sub>13</sub> H <sub>16</sub> N <sub>3</sub> NaO <sub>4</sub> S	333.0	68-89-3	4
<i>Doxycycline</i>	Tetracycline	C <sub>22</sub> H <sub>24</sub> N <sub>2</sub> O <sub>8</sub>	444.1	564-25-0	4
<i>Enoxacin</i>	Fluorchinolone	C <sub>15</sub> H <sub>17</sub> FN <sub>4</sub> O <sub>3</sub>	320.1	74011-58-8	4
<i>Enrofloxacin</i>	Fluorchinolone	C <sub>19</sub> H <sub>22</sub> FN <sub>3</sub> O <sub>3</sub>	359.1	93106-60-6	4
<i>epi-Tetracycline</i>	Tetracycline	C <sub>22</sub> H <sub>24</sub> N <sub>2</sub> O <sub>8</sub>	444.1	60-54-8	4
<i>Erythromycin</i>	Macrolide	C <sub>37</sub> H <sub>67</sub> NO <sub>13</sub>	733.4	114-07-8	4
<i>Erythromycin-13C2</i>	Macrolide	<sup>13</sup> C <sub>2</sub> C <sub>35</sub> H <sub>67</sub> NO <sub>13</sub>	735.4		4
<i>Etodolac</i>	NSAID	C <sub>17</sub> H <sub>21</sub> NO <sub>3</sub>	287.1	41340-25-4	4

Compound Name	CompoundClass	Formula	MW	CAS#	# of Spectra
<i>Febantel</i>	Benzimidazole	C <sub>20</sub> H <sub>22</sub> N <sub>4</sub> O <sub>6</sub> S	446.1	58306-30-2	4
<i>Fenbendazole</i>	Benzimidazole	C <sub>15</sub> H <sub>13</sub> N <sub>3</sub> O <sub>2</sub> S	299.0	43210-67-9	8
<i>Fenbendazole Sulfone</i>	Benzimidazole	C <sub>15</sub> H <sub>13</sub> N <sub>3</sub> O <sub>4</sub> S	331.0	54029-20-8	4
<i>Fenbendazole Sulfoxide</i>	Benzimidazole	C <sub>15</sub> H <sub>13</sub> N <sub>3</sub> O <sub>3</sub> S	315.0	53716-50-0	4
<i>Florfenicol</i>	Amphenicol	C <sub>12</sub> H <sub>14</sub> Cl <sub>2</sub> FNO <sub>4</sub> S	357.0	73231-34-2	4
<i>Florfenicol Amine</i>	Amphenicol	C <sub>10</sub> H <sub>14</sub> FNO <sub>3</sub> S	247.0	76639-93-5	4
<i>Flubendazole</i>	Benzimidazole	C <sub>16</sub> H <sub>12</sub> FN <sub>3</sub> O <sub>3</sub>	313.0	31430-15-6	4
<i>Flumequine</i>	Fluorquinolone	C <sub>14</sub> H <sub>12</sub> FNO <sub>3</sub>	261.0	42835-25-6	4
<i>Flunixin</i>	Flunixin	C <sub>14</sub> H <sub>11</sub> F <sub>3</sub> N <sub>2</sub> O <sub>2</sub>	296.1	38677-85-9	4
<i>Gentian Violet</i>	Triarylmethanfarbstoffe	C <sub>25</sub> H <sub>30</sub> N <sub>3</sub>	372.2	548-62-9 (C.I. 42555)	4
<i>Halofuginone</i>	Coccidiostat	C <sub>16</sub> H <sub>17</sub> BrClN <sub>3</sub> O <sub>3</sub>	414.7	17395-31-2	4
<i>Hydroxymebendazole</i>	Benzimidazole	C <sub>16</sub> H <sub>15</sub> N <sub>3</sub> O <sub>3</sub>	297.1	60254-95-7	4
<i>Hydroxythiabendazole</i>	Benzimidazole	C <sub>10</sub> H <sub>7</sub> N <sub>3</sub> OS	217.0	948-71-0	4
<i>Ibuprofen</i>	NSAID	C <sub>13</sub> H <sub>18</sub> O <sub>2</sub>	206.1	15687-27-1	4
<i>Indomethacin</i>	NSAID	C <sub>19</sub> H <sub>16</sub> ClNO <sub>4</sub>	357.0	91853-74-6	4
<i>Ipronidazole</i>	Nitromidazole	C <sub>7</sub> H <sub>11</sub> N <sub>3</sub> O <sub>2</sub>	169.0	14885-29-1	4
<i>Ipronidazole-OH</i>	Nitromidazole	C <sub>7</sub> H <sub>11</sub> N <sub>3</sub> O <sub>3</sub>	185.0	35175-14-5	4
<i>Ipronidazole-OH-D3</i>	Nitromidazole	C <sub>7</sub> H <sub>8</sub> D <sub>3</sub> N <sub>3</sub> O <sub>3</sub>	187.6		4
<i>Isochlortetracycline</i>	Tetracycline	C <sub>22</sub> H <sub>23</sub> ClN <sub>2</sub> O <sub>8</sub>	478.1	514-53-4	4
<i>Josamycin</i>	Macrolide	C <sub>42</sub> H <sub>69</sub> NO <sub>15</sub>	827.4	16846-24-5	4
<i>Ketoprofen</i>	NSAID	C <sub>16</sub> H <sub>14</sub> O <sub>3</sub>	254.0	22071-15-4	4
<i>Ketotriclabendazole</i>	Benzimidazole	C <sub>13</sub> H <sub>7</sub> Cl <sub>3</sub> N <sub>2</sub> O <sub>2</sub>	327.9		4
<i>Laidlomycin propionate - Ammonium</i>	Coccidiostat	C <sub>40</sub> H <sub>69</sub> O <sub>13</sub> N	771.4	84799-02-0	4
<i>Lasalocid</i>	Coccidiostat	C <sub>34</sub> H <sub>54</sub> O <sub>8</sub>	590.3	25999-31-9	8
<i>Leucogentian violet</i>	Triarylmethanfarbstoffe	C <sub>25</sub> H <sub>31</sub> N <sub>3</sub>	373.2	603-48-5	4
<i>Leucomalachite green</i>	Triarylmethanfarbstoffe	C <sub>23</sub> H <sub>26</sub> N <sub>2</sub>	330.2	129-73-7	4
<i>Leucomalachite green-D5</i>	Triarylmethanfarbstoffe	C <sub>23</sub> H <sub>21</sub> D <sub>5</sub> N <sub>2</sub>	335.2		4
<i>Lincomycin</i>	Macrolide	C <sub>18</sub> H <sub>34</sub> N <sub>2</sub> O <sub>6</sub> S	406.2	154-21-2	4
<i>Lomefloxacin</i>	Fluorquinolone	C <sub>17</sub> H <sub>19</sub> F <sub>2</sub> N <sub>3</sub> O <sub>3</sub>	351.1	98079-51-7	4
<i>Maduramycin</i>	Coccidiostat	C <sub>47</sub> H <sub>80</sub> O <sub>17</sub>	916.5	84878-61-5	4
<i>Malachite green</i>	Triarylmethanfarbstoffe	C <sub>23</sub> H <sub>25</sub> N <sub>2</sub>	329.2	10309-95-2	4
<i>Marbofloxacin</i>	Fluorquinolone	C <sub>17</sub> H <sub>19</sub> FN <sub>4</sub> O <sub>4</sub>	362.1	115550-35-1	4
<i>Mebendazole</i>	Benzimidazole	C <sub>16</sub> H <sub>13</sub> N <sub>3</sub> O <sub>3</sub>	295.0	31431-39-7	4
<i>Medroxyprogesterone 17-acetate</i>	Acetylgestagene	C <sub>24</sub> H <sub>34</sub> O <sub>4</sub>	386.2	71-58-9	4
<i>Megestrol acetate</i>	Acetylgestagene	C <sub>24</sub> H <sub>32</sub> O <sub>4</sub>	384.2	51154-23-5	4
<i>Melengestrol acetate</i>	Acetylgestagene	C <sub>25</sub> H <sub>32</sub> O <sub>4</sub>	396.2	2919-66-6	4
<i>Melengestrol acetate-D3</i>	Acetylgestagene	C <sub>25</sub> H <sub>29</sub> O <sub>4</sub> D <sub>3</sub>	399.2		4
<i>Metronidazole</i>	Nitroimidazole	C <sub>6</sub> H <sub>9</sub> N <sub>3</sub> O <sub>3</sub>	171.0	443-48-1	8
<i>Metronidazole-OH</i>	Nitromidazole	C <sub>6</sub> H <sub>9</sub> N <sub>3</sub> O <sub>4</sub>	187.0	4812-40-2	4

Compound Name	CompoundClass	Formula	MW	CAS#	# of Spectra
<i>Minocycline</i>	tetracycline	C <sub>23</sub> H <sub>27</sub> N <sub>3</sub> O <sub>7</sub>	457.1	10118-90-8	4
<i>Monensin</i>	Coccidiostat	C <sub>36</sub> H <sub>62</sub> O <sub>11</sub>	670.4	17090-79-8	8
<i>Nafcillin</i>	B-Lactame	C <sub>21</sub> H <sub>22</sub> N <sub>2</sub> O <sub>5</sub> S	414.1	147-52-4	4
<i>Nalidixic Acid</i>	Fluorquinolone	C <sub>12</sub> H <sub>12</sub> N <sub>2</sub> O <sub>3</sub>	232.0	389-08-2	4
<i>Naproxen</i>	NSAID	C <sub>14</sub> H <sub>14</sub> O <sub>3</sub>	230.0	22204-53-1	4
<i>Narasin</i>	Coccidiostat	C <sub>43</sub> H <sub>72</sub> O <sub>11</sub>	764.5	55134-13-9	8
<i>Nicarbazin</i>	Coccidiostat	C <sub>19</sub> H <sub>18</sub> N <sub>6</sub> O <sub>6</sub>	426.1	330-95-0	4
<i>Niclosamide</i>	Coccidiostat	C <sub>13</sub> H <sub>8</sub> Cl <sub>2</sub> N <sub>2</sub> O <sub>4</sub>	325.9	50-65-7	4
<i>Norfloxacin</i>	Fluorquinolone	C <sub>16</sub> H <sub>18</sub> FN <sub>3</sub> O <sub>3</sub>	319.1	70458-96-7	4
<i>Norfloxacin-D5</i>	Fluorquinolone	C <sub>16</sub> H <sub>13</sub> D <sub>5</sub> FN <sub>3</sub> O <sub>3</sub>	324.1		4
<i>Novobiocin</i>	Antibiotic	C <sub>31</sub> H <sub>36</sub> N <sub>2</sub> O <sub>11</sub>	612.2	303-81-1	4
<i>Ofloxacin</i>	Fluorquinolone	C <sub>18</sub> H <sub>20</sub> FN <sub>3</sub> O <sub>4</sub>	361.1	82419-36-1	4
<i>Orbifloxacin</i>	Fluoroquinolone	C <sub>19</sub> H <sub>20</sub> F <sub>3</sub> N <sub>3</sub> O <sub>3</sub>	395.1	113617-63-3	4
<i>Ormetoprim</i>	Sulfonamide	C <sub>14</sub> H <sub>18</sub> N <sub>4</sub> O <sub>2</sub>	274.1	6981-18-6	4
<i>Oxacillin</i>	B-Lactame	C <sub>19</sub> H <sub>19</sub> N <sub>3</sub> O <sub>5</sub> S	401.1	66-79-5	4
<i>Oxfendazole</i>	Benzimidazole	C <sub>15</sub> H <sub>13</sub> N <sub>3</sub> O <sub>3</sub> S	315.0	53716-50-0	4
<i>Oxfendazole Sulfone</i>	Benzimidazole	C <sub>15</sub> H <sub>13</sub> N <sub>3</sub> O <sub>4</sub> S	331.0	54029-20-8	4
<i>Oxibendazole</i>	Benzimidazole	C <sub>12</sub> H <sub>15</sub> N <sub>3</sub> O <sub>3</sub>	249.1	20559-55-1	4
<i>Oxolinic Acid</i>	Fluorquinolone	C <sub>13</sub> H <sub>11</sub> NO <sub>5</sub>	261.0	14698-29-4	4
<i>Oxyphenbutazone</i>	NSAID	C <sub>19</sub> H <sub>20</sub> N <sub>2</sub> O <sub>3</sub>	324.1	129-20-4	4
<i>Oxytetracycline</i>	Tetracycline	C <sub>22</sub> H <sub>24</sub> N <sub>2</sub> O <sub>9</sub>	460.1	79-57-2	4
<i>Penicillin G</i>	B-Lactame	C <sub>16</sub> H <sub>18</sub> N <sub>2</sub> O <sub>4</sub> S	334.0	61-33-6	8
<i>Penicillin G-D7</i>	B-Lactame	C <sub>16</sub> H <sub>10</sub> D <sub>7</sub> N <sub>2</sub> O <sub>4</sub> S	340.7		4
<i>Penicillin V</i>	B-Lactame	C <sub>16</sub> H <sub>18</sub> N <sub>2</sub> O <sub>5</sub> S	350.0	87-08-1	4
<i>Phenylbutazone</i>	NSAID	C <sub>19</sub> H <sub>20</sub> N <sub>2</sub> O <sub>2</sub>	308.1	50-33-9	4
<i>Ractopamine</i>	Beta-agonist	C <sub>18</sub> H <sub>23</sub> NO <sub>3</sub>	301.1	97825-25-7	4
<i>Rafoxanide</i>	Anti parasite	C <sub>19</sub> H <sub>11</sub> Cl <sub>2</sub> I <sub>2</sub> NO <sub>3</sub>	624.8	22662-39-1	4
<i>Ronidazole</i>	Nitroimidazole	C <sub>6</sub> H <sub>8</sub> N <sub>4</sub> O <sub>4</sub>	200.0	7681-76-7	4
<i>Roxithromycin</i>	Macrolide	C <sub>41</sub> H <sub>76</sub> N <sub>2</sub> O <sub>15</sub>	836.5	80214-83-1	4
<i>Salinomycin</i>	Coccidiostat	C <sub>42</sub> H <sub>70</sub> O <sub>11</sub>	750.4	53003-10-4	4
<i>Sarafloxacin</i>	Fluorquinolone	C <sub>20</sub> H <sub>17</sub> F <sub>2</sub> N <sub>3</sub> O <sub>3</sub>	385.1	98105-99-8	4
<i>Semduramicin</i>	Coccidiostat	C <sub>45</sub> H <sub>76</sub> O <sub>16</sub>	872.5	113378-31-7	4
<i>Spiramycin</i>	Macrolide	C <sub>43</sub> H <sub>74</sub> N <sub>2</sub> O <sub>14</sub>	842.5	8025-81-8	4
<i>Sulfabenzamide</i>	Sulfonamide	C <sub>13</sub> H <sub>12</sub> N <sub>2</sub> O <sub>3</sub> S	276.0	127-71-9	4
<i>Sulfacetamide</i>	Sulfonamide	C <sub>8</sub> H <sub>10</sub> N <sub>2</sub> O <sub>3</sub> S	214.0	144-80-9	4
<i>Sulfachloropyridazine</i>	Sulfonamide	C <sub>10</sub> H <sub>9</sub> ClN <sub>4</sub> O <sub>2</sub> S	284.0	80-32-0	4
<i>Sulfaclozine</i>	Sulfonamide	C <sub>10</sub> H <sub>9</sub> ClN <sub>4</sub> O <sub>2</sub> S	284.0	102-65-8	4
<i>Sulfadiazine</i>	Sulfonamide	C <sub>10</sub> H <sub>10</sub> N <sub>4</sub> O <sub>2</sub> S	250.0	68-35-9	4
<i>Sulfadimethoxine</i>	Sulfonamide	C <sub>12</sub> H <sub>14</sub> N <sub>4</sub> O <sub>4</sub> S	310.0	122-11-2	4
<i>Sulfadoxine</i>	Sulfonamide	C <sub>12</sub> H <sub>14</sub> N <sub>4</sub> O <sub>4</sub> S	310.0	2447-57-6	4

Compound Name	CompoundClass	Formula	MW	CAS#	# of Spectra
<i>Sulfaguanidine</i>	Sulfonamide	C <sub>7</sub> H <sub>10</sub> N <sub>4</sub> O <sub>2</sub> S	214.0	57-67-0	4
<i>Sulfamerazine</i>	Sulfonamide	C <sub>11</sub> H <sub>12</sub> N <sub>4</sub> O <sub>2</sub> S	264.0	127-79-7	4
<i>Sulfameter</i>	Sulfonamide	C <sub>11</sub> H <sub>12</sub> N <sub>4</sub> O <sub>3</sub> S	280.0	651-06-9	4
<i>Sulfamethazine</i>	Sulfonamide	C <sub>12</sub> H <sub>14</sub> N <sub>4</sub> O <sub>2</sub> S	278.0	57-68-1	8
<i>Sulfamethazine-D4</i>	Internal Standard	C <sub>12</sub> H <sub>10</sub> D <sub>4</sub> N <sub>4</sub> O <sub>2</sub> S	282.1		4
<i>Sulfamethizole</i>	Sulfonamide	C <sub>9</sub> H <sub>10</sub> N <sub>4</sub> O <sub>2</sub> S <sub>2</sub>	270.0	144-82-1	4
<i>Sulfamethoxazole</i>	Sulfonamide	C <sub>10</sub> H <sub>11</sub> N <sub>3</sub> O <sub>3</sub> S	253.0	723-46-6	4
<i>Sulfamethoxazole-D4</i>	Sulfonamide	C <sub>10</sub> H <sub>7</sub> D <sub>4</sub> N <sub>3</sub> O <sub>3</sub> S	257.0		4
<i>Sulfamethoxypyridazine</i>	Sulfonamide	C <sub>11</sub> H <sub>12</sub> N <sub>4</sub> O <sub>3</sub> S	280.0	80-35-3	4
<i>Sulfamonomethoxine</i>	Sulfonamide	C <sub>11</sub> H <sub>12</sub> N <sub>4</sub> O <sub>3</sub> S	280.0	1220-83-3	4
<i>Sulfamoxole</i>	Sulfonamide	C <sub>11</sub> H <sub>13</sub> N <sub>3</sub> O <sub>3</sub> S	267.0	729-99-7	4
<i>Sulfanilamide</i>	Sulfonamide	C <sub>6</sub> H <sub>8</sub> N <sub>2</sub> O <sub>2</sub> S	172.0	63-74-1	4
<i>Sulfantran</i>	Antibiotic	C <sub>14</sub> H <sub>13</sub> N <sub>3</sub> O <sub>5</sub> S	335.0	122-16-7	4
<i>Sulfaphenazole</i>	Sulfonamide	C <sub>15</sub> H <sub>14</sub> N <sub>4</sub> O <sub>2</sub> S	314.0	526-08-9	4
<i>Sulfapyridine</i>	Sulfonamide	C <sub>11</sub> H <sub>11</sub> N <sub>3</sub> O <sub>2</sub> S	249.0	144-83-2	4
<i>Sulfaquinoxaline</i>	Sulfonamide	C <sub>14</sub> H <sub>12</sub> N <sub>4</sub> O <sub>2</sub> S	300.0	59-40-5	4
<i>Sulfasalazine</i>	sulfonamide	C <sub>18</sub> H <sub>14</sub> N <sub>4</sub> O <sub>5</sub> S	398.0	599-79-1	4
<i>Sulfathiazole</i>	Sulfonamide	C <sub>9</sub> H <sub>9</sub> N <sub>3</sub> O <sub>2</sub> S <sub>2</sub>	255.0	72-14-0	4
<i>Sulfathiazole-D4</i>	Sulfonamide	C <sub>9</sub> H <sub>5</sub> D <sub>4</sub> N <sub>3</sub> O <sub>2</sub> S <sub>2</sub>	259.0		4
<i>Sulfisomidine</i>	Sulfonamide	C <sub>12</sub> H <sub>14</sub> N <sub>4</sub> O <sub>2</sub> S	278.0	515-64-0	4
<i>Sulfisoxazole</i>	Sulfonamide	C <sub>11</sub> H <sub>13</sub> N <sub>3</sub> O <sub>3</sub> S	267.0	127-69-5	4
<i>Tetracycline</i>	Tetracycline	C <sub>22</sub> H <sub>24</sub> N <sub>2</sub> O <sub>8</sub>	444.1	60-54-8	4
<i>Tetramisole</i>	Benzimidazole	C <sub>11</sub> H <sub>12</sub> N <sub>2</sub> S	204.0	5036-02-2 (14769-73-4)	4
<i>Thiabendazole</i>	Benzimidazole	C <sub>10</sub> H <sub>7</sub> N <sub>3</sub> S	201.0	148-79-8	4
<i>Thiabendazole-13C6</i>	Benzimidazole	C <sub>4</sub> H <sub>7</sub> . <sup>13</sup> C <sub>6</sub> N <sub>3</sub> S	207.0		4
<i>Thiamphenicol</i>	Amphenicol	C <sub>12</sub> H <sub>15</sub> Cl <sub>2</sub> NO <sub>5</sub> S	355.0	15318-45-3	4
<i>Tiamulin</i>	Macrolide	C <sub>28</sub> H <sub>47</sub> NO <sub>4</sub> S	493.3	55297-95-5	4
<i>Tilmicosin</i>	Macrolide	C <sub>46</sub> H <sub>80</sub> N <sub>2</sub> O <sub>13</sub>	868.5	108050-54-0	8
<i>Tolfenamic acid</i>	NSAID	C <sub>14</sub> H <sub>12</sub> ClNO <sub>2</sub>	261.0	13710-19-5	4
<i>Triclabendazole</i>	Benzimidazole	C <sub>14</sub> H <sub>9</sub> Cl <sub>3</sub> N <sub>2</sub> OS	357.9	68786-66-3	4
<i>Triclabendazole Sulfone</i>	Benzimidazole	C <sub>14</sub> H <sub>9</sub> Cl <sub>3</sub> N <sub>2</sub> O <sub>3</sub> S	389.9	100648-14-4	4
<i>Triclabendazole Sulfoxide</i>	Benzimidazole	C <sub>14</sub> H <sub>9</sub> Cl <sub>3</sub> N <sub>2</sub> O <sub>2</sub> S	375.7	100648-13-3	4
<i>Trimethoprim</i>	Sulfonamide	C <sub>14</sub> H <sub>18</sub> N <sub>4</sub> O <sub>3</sub>	290.1	738-70-5	4
<i>Tylosin</i>	Macrolide	C <sub>46</sub> H <sub>77</sub> NO <sub>17</sub>	915.5	1401-69-0	4

## Ordering Information

Product Name	Part Number
<i>iMethod™ Test Veterinary Antibiotics LC/MS/MS Library V.1.1 for Cliquid® Software</i>	5008156

## Legal Acknowledgements/Disclaimers

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Publication number: 1670810-01