

Antibiotics

BMF 92 - Antibiotics

Antibiotics

Antibiotics are medicines used to treat infections caused by bacteria. People at a high risk may also be given antibiotics to prevent bacterial infections, known as antibiotic prophylaxis. Antibiotics work by killing bacteria i.e. by destroying the cell wall (bactericidal), or preventing them from reproducing and spreading (bacteriostatic). Mild bacterial infections usually get better on their own without using antibiotics. Instead antibiotics should be reserved to treat bacterial infections that are unlikely to resolve on their own, may have a prolonged duration, or lead to serious complications if left untreated. They are also prescribed when an infection may pose a risk to others. When prescribed, antibiotics are effective in easing symptoms and speeding up recovery. In some instances they are lifesaving! Antibiotics don't work against viral infections such as colds and flu.

Antibiotics in the food chain

As in humans, antibiotics are used in the prevention and treatment of animal diseases. They are also used to enhance growth performance and feed efficiency, to synchronize or

control the reproductive cycle and improve breeding performance. Antibiotics can inadvertently end up in the food chain and be harmful to those consuming them. They can pose a direct threat from toxicity following consumption. Indirectly, low level exposure can alter microflora, cause disease and the possible development of resistant strains, which can cause antibiotic therapy to fail. To safeguard human exposure, and to prevent deposition of residues in meat, milk and eggs destined for the food chain, a withholding period must be observed after treatment to ensure residues are negligible or reach safe concentration. Heavy responsibility is placed on the veterinarian and livestock producer to observe the withdrawal period. WHO and FAO establish tolerances for drugs, pesticide or other chemical in the tissues of food producing animals.

Administration

Antibiotics can be administered in several ways:

- **Oral:** tablets and capsules (most commonly) or a liquid
- **Topical:** creams, lotions, sprays or drops
- **Injection:** intravenous infusion or intramuscular



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Side effects

The most common side effects include:

- Nausea and vomiting
- Bloating and indigestion
- Diarrhoea
- Fungal infections e.g. thrush due to disruption to healthy bacteria

Types of antibiotics

There are numerous different types of antibiotics, but most can be broadly classified into six groups based on their mechanism of action, chemical structure, or spectrum of activity:

1. Penicillins (e.g. penicillin and amoxicillin)
2. Cephalosporins (e.g. cephalexin)
3. Aminoglycosides (e.g. gentamicin and tobramycin)
4. Tetracyclines (e.g. tetracycline and doxycycline)
5. Macrolides (e.g. erythromycin and clarithromycin)
6. Fluoroquinolones (e.g. ciprofloxacin and levofloxacin)

Broad-spectrum antibiotics can treat infections caused by a wide range of different bacteria. Conversely, narrow-spectrum antibiotics only works against specific bacteria.

Antibiotic resistance

The overuse and misuse of antibiotics in recent years has led to a reduction in their efficiency and the emergence of “superbugs”. These are strains of bacteria that have developed resistance to antibiotics. Some multi-resistant bacteria are resistant to several antibiotics at the same time. A resistant bacteria cannot be fully inhibited or killed by an antibiotic, even though the antibiotic may have worked effectively before the resistance occurred. The most common contributors to antibiotic resistance are using antibiotics when you don't really need them and failing to complete a course.

Examples of resistant bacteria include:

- Methicillin-resistant *Staphylococcus aureus* (MRSA)
- *Clostridium difficile* (C. diff)
- Multi-drug-resistant tuberculosis (MDR-TB)
- Carbapenemase-producing *Enterobacteriaceae* (CPE)

References

NHS Choices - Your health, your choices: <https://www.nhs.uk/conditions/antibiotics/>

Bupa - Antibiotics: <https://www.bupa.co.uk/health-information/directory/a/antibiotics>

A R Nisha. Antibiotic Residues - A Global Health Hazard *Vet World*. 2008; 1(12): 375-377. <http://www.scopemed.org/?jft=2&ft=2-1295632494>



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Chiron offers a wide range of neat standards and solutions for antibiotic monitoring:

Catalogue No.	Description (Abbreviation)	Cas No.	Concentration	Solvent	Volume
Abamectin					
13005.48-100-ME	Abamectin isomer mix (Abamectin B1a (82%) and B1b)	71751-41-2	100 µg/mL	methanol	1 mL
13005.48-K-ME	Abamectin isomer mix (Abamectin B1a (82%) and B1b)	71751-41-2	1000 µg/mL	methanol	1 mL
13005.48-100MG	Abamectin isomer mix (Abamectin B1a (82%) and B1b)	71751-41-2	neat	neat	100 mg
Acetylsulfamethoxazole					
13192.12-100-ME	Acetylsulfamethoxazole	21312-10-7	100 µg/mL	methanol	1 mL
13192.12-K-ME	Acetylsulfamethoxazole	21312-10-7	1000 µg/mL	methanol	1 mL
13192.12-10MG	Acetylsulfamethoxazole	21312-10-7	neat	neat	10 mg
Acriflavine					
13226.14-100-ME	Acriflavine	8048-52-0 and alternate No. 65589-70-0	100 µg/mL	methanol	1 mL
13226.14-K-ME	Acriflavine	8048-52-0	1000 µg/mL	methanol	1 mL
13226.14-500-ME	Acriflavine	8048-52-0	500 µg/mL	methanol	1 mL
13226.14-100MG	Acriflavine	8048-52-0	neat	neat	100 mg
Agrimycin					
13091.21-100-ME	Agrimycin hydrate	57-92-1 (anhydrate)	100 µg base/mL	methanol	1 mL
13091.21-K-W	Agrimycin hydrate	57-92-1 (anhydrate)	1000 µg base /mL	water	1 mL
13091.21-10MG	Agrimycin hydrate	57-92-1 (anhydrate)	neat	neat	1 mL
Albendazole					
11624.12-100-ME	Albendazole	54965-21-8	100 µg/mL	methanol	1 mL
11624.12-500-ME	Albendazole	54965-21-8	500 µg/mL	methanol	1 mL
13210.12-100-ME	Albendazole sulfoxide	54029-12-8	100 µg/mL	methanol	1 mL
13210.12-500-ME	Albendazole sulfoxide	54029-12-8	500 µg/mL	methanol	1 mL
13210.12-K-ME	Albendazole sulfoxide	54029-12-8	1000 µg/mL	methanol	1 mL
13210.12-10MG	Albendazole sulfoxide	54029-12-8	neat	neat	10 mg
13211.10-100-ME	2-Aminoalbendazole sulfone	80983-34-2	100 µg/mL	methanol	1 mL
13211.10-500-ME	2-Aminoalbendazole sulfone	80983-34-2	500 µg/mL	methanol	1 mL
13211.10-K-ME	2-Aminoalbendazole sulfone	80983-34-2	1000 µg/mL	methanol	1 mL
13211.10-10MG	2-Aminoalbendazole sulfone	80983-34-2	neat	neat	10 mg
Amikacin					
10845.22-100MG	Amikacin	37517-28-5	neat	neat	100 mg
1-Aminohydantoin					
12994.3-100-ME	1-Aminohydantoin	6301-02-6	100 µg/mL	methanol	1 mL
12994.3-K-ME	1-Aminohydantoin	6301-02-6	1000 µg/mL	methanol	1 mL
12994.3-10MG	1-Aminohydantoin	6301-02-6	neat	neat	10 mg
Amoxicillin					
12495.16-K-ME	Amoxicillin trihydrate	61336-70-7	1000 µg base/mL	methanol	1 mL
12495.16-100-ME	Amoxicillin trihydrate	61336-70-7	100 µg base/mL	methanol	1 mL

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Catalogue No.	Description (Abbreviation)	Cas No.	Concentration	Solvent	Volume
Amoxicillin (continued)					
12495.16-500-ME	Amoxicillin trihydrate	61336-70-7	500 µg base/mL	methanol	1 mL
12495.16-K-ME	Amoxicillin trihydrate	61336-70-7	1000 µg base/mL	methanol	1 mL
12495.16-10MG	Amoxicillin trihydrate	61336-70-7	neat	neat	10 mg
12495.16-250MG	Amoxicillin trihydrate	61336-70-7	neat	neat	250 mg
AMOZ (3-Amino-5-(4-morpholinylmethyl)-2-oxazolidinone)					
12993.8-100-ME	AMOZ	43056-63-9	100 µg/mL	methanol	1 mL
12993.8-K-ME	AMOZ	43056-63-9	1000 µg/mL	methanol	1 mL
12993.8-5MG	AMOZ	43056-63-9	neat	neat	5 mg
Ampicillin					
12634.16-K-ME	Ampicillin	69-53-4	1000 µg/mL	methanol	1 mL
12634.16-100-ME	Ampicillin	69-53-4	100 µg/mL	methanol	1 mL
12634.16-500-ME	Ampicillin	69-53-4	500 µg/mL	methanol	1 mL
12634.16-K-ME	Ampicillin	69-53-4	1000 µg/mL	methanol	1 mL
12634.16-250MG	Ampicillin	69-53-4	neat	neat	250 mg
AOZ (3-Amino-2-oxazolidione)					
12992.3-100-ME	AOZ	80-65-9	100 µg/mL	methanol	1 mL
12992.3-K-ME	AOZ	80-65-9	1000 µg/mL	methanol	1 mL
12992.3-10MG	AOZ	80-65-9	neat	neat	10 mg
Apramycin					
13093.21-100-HCL	Apramycin sulfate	65710-07-8	100 µg base/mL	0.1 M HCl	1 mL
13093.21-K-HCL	Apramycin sulfate	65710-07-8	1000 µg base/mL	0.1 M HCl	1 mL
13093.21-10MG	Apramycin sulfate	65710-07-8	neat	neat	10mg
Azithromycin					
12743.38-K-ME	Azithromycin	83905-01-5	1000 µg/mL	methanol	1 mL
12743.38-10MG	Azithromycin	83905-01-5	neat	neat	10 mg
11629.38-50MG	Azithromycin dihydrate	117772-70-0	neat	neat	50 mg
Bacitracin					
13197.66-100-ME	Bacitracin	1405-87-4	100 µg/mL	methanol	1 mL
13197.66-K-ME	Bacitracin	1405-87-4	1000 µg/mL	methanol	1 mL
13197.66-100MG	Bacitracin	1405-87-4	100 mg	neat	100 mg
Bronopol (2-Bromo-2-nitro-1,3-propanediol)					
8897.3-100MG	Bronopol	52-51-7	neat	neat	100 mg
Carbadox					
8471.11-10MG	Carbadox	6804-07-5	neat	neat	10 mg
Cefaclor					
12106.15-100MG	Cefaclor	53994-73-3	neat	neat	100 mg

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Catalogue No.	Description (Abbreviation)	Cas No.	Concentration	Solvent	Volume
Cefadroxil					
12400.16-K-ME	Cefadroxil hydrate	66592-87-8	1000 µg base/mL	methanol	1 mL
Cefalonium					
12401.20-100-MX	Cefalonium dihydrate	1385046-35-4	100 µg base/mL	methanol/ water =70/30	1 mL
12401.20-500-MX	Cefalonium dihydrate	1385046-35-4	500 µg base/mL	methanol/ water =70/30	1 mL
12401.20-K-MX	Cefalonium dihydrate	1385046-35-4	1000 µg base/mL	methanol/ water =70/30	1 mL
12401.20-10MG	Cefalonium dihydrate	1385046-35-4	neat	neat	10 mg
Cefazolin					
12398.14-100-DS	Cefazolin	25953-19-9	100 µg/mL	DMSO	1 mL
12398.14-500-DS	Cefazolin	25953-19-9	500 µg/mL	DMSO	1 mL
12398.14-K-DS	Cefazolin	25953-19-9	1000 µg/mL	DMSO	1 mL
12398.14-10MG	Cefazolin	25953-19-9	neat	neat	10 mg
Cefixime					
12447.16-K-ME	Cefixime	79350-37-1	1000 µg/mL	methanol	1 mL
12447.16-10MG	Cefixime	79350-37-1	neat	neat	10 mg
12447.16-500MG	Cefixime	79350-37-1	neat	neat	500 mg
Cefoperazone					
13163.25-100-ME	Cefoperazone	62893-19-0	100 µg/mL	methanol	1 mL
13163.25-500-ME	Cefoperazone	62893-19-0	500 µg/mL	methanol	1 mL
13163.25-K-ME	Cefoperazone	62893-19-0	1000 µg/mL	methanol	1 mL
13163.25-100MG	Cefoperazone	62893-19-0	neat	neat	100 mg
Cefotaxime					
10824.16-100MG	Cefotaxime sodium salt	64485-93-4	neat	neat	100 mg
Cefquinome					
12996.23-100-DS	Cefquinome	84957-30-2	100 µg/mL	DMSO	1 mL
12996.23-10MG	Cefquinome	84957-30-2	neat	neat	10 mg
Ceftiofur					
12396.19-100-AN	Ceftiofur	80370-57-6	100 µg/mL	acetonitrile	1 mL
12396.19-10MG	Ceftiofur	80370-57-6	neat	neat	10 mg
Cefuroxime					
12399.16-100-ME	Cefuroxime	55268-75-2	100 µg/mL	methanol	1 mL
12399.16-K-ME	Cefuroxime	55268-75-2	1000 µg/mL	methanol	1 mL
12399.16-10MG	Cefuroxime	55268-75-2	neat	neat	10 mg
11633.20-50MG	Cefuroxime axetil	64544-07-6	neat	neat	50 mg

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Catalogue No.	Description (Abbreviation)	Cas No.	Concentration	Solvent	Volume
Cephalexin					
12397.16-K-ME	Cephalexin	15686-71-2	1000 µg/mL	methanol	1 mL
12997.16-100-HCL	Cephalexin hydrate	23325-78-2	100 µg base/mL	0.1 M HCl	1 mL
12997.16-500-HCL	Cephalexin hydrate	23325-78-2	500 µg base/mL	0.1 M HCl	1 mL
12997.16-K-HCL	Cephalexin hydrate	23325-78-2	1000 µg base/mL	0.1 M HCl	1 mL
12997.16-100MG	Cephalexin hydrate	23325-78-2	neat	neat	100 mg
Cephapirin					
12995.17-100-ME	Cephapirin	21593-23-7	100 µg/mL	methanol	1 mL
12995.17-1MG	Cephapirin	21593-23-7	neat	neat	1 mg
Cetrimonium (Hexadecyltrimethylammonium)					
9137.19-K-ME	Cetrimonium bromide	57-09-0	1000 µg/mL	methanol	1 mL
9137.19-1G	Cetrimonium bromide	57-09-0	neat	neat	1 g
8541.19-K-ME	Cetrimonium chloride (ATAC-C16)	112-02-7	1000 µg/mL	methanol	1 mL
8541.19-1G	Cetrimonium chloride (ATAC-C16)	112-02-7	neat	neat	1 g
Chloramphenicol					
10649.11-100-AN	(R,R)-Chloramphenicol	56-75-7	100 µg/mL	acetonitrile	1 mL
10649.11-500-AN	(R,R)-Chloramphenicol	56-75-7	500 µg/mL	acetonitrile	1 mL
10649.11-K-AN	(R,R)-Chloramphenicol	56-75-7	1000 µg/mL	acetonitrile	1 mL
10649.11-250MG	(R,R)-Chloramphenicol	56-75-7	neat	neat	250 mg
Chlortetracycline (Aureomycin)					
10847.22-100-ME	Chlortetracycline hydrochloride	64-72-2	100 µg base/mL	methanol	1 mL
10847.22-500-ME	Chlortetracycline hydrochloride	64-72-2	500 µg base/mL	methanol	1 mL
10847.22-K-ME	Chlortetracycline hydrochloride	64-72-2	1000 µ-[g base/mL	methanol	1 mL
10847.22-10MG	Chlortetracycline hydrochloride	64-72-2	neat	neat	10 mg
10847.22-250MG	Chlortetracycline hydrochloride	64-72-2	neat	neat	250 mg
13343.22-100-ME	Anhydrochlortetracycline hydrochloride	65490-24-6	100 µg base/mL	methanol	1 mL
13343.22-1MG	Anhydrochlortetracycline hydrochloride	65490-24-6	neat	neat	1 mg
13326.22-100-ME	4-Epianhydrochlortetracycline hydrochloride	158018-53-2	100 µg/mL	methanol	1 mL
13326.22-1MG	4-Epianhydrochlortetracycline hydrochloride	158018-53-2	neat	neat	1 mg
13328.22-100-ME	4-Epichlortetracycline hydrochloride (>90% by HPLC)	101342-45-4	100 µg base/mL	methanol	1 mL
13331.22-100-DS	Isochlortetracycline	514-53-4	100 µg/mL	DMSO	1 mL
13331.22-1MG	Isochlortetracycline	514-53-4	neat	neat	1 mg
Ciprofloxacin					
8570.17-100-HCL	Ciprofloxacin	85721-33-1	100 µg/mL	0.1 M HCl	1 mL
8570.17-500-HCL	Ciprofloxacin	85721-33-1	500 µg/mL	0.1 M HCl	1 mL
8570.17-K-HCL	Ciprofloxacin	85721-33-1	1000 µg/mL	0.1 M HCl	1 mL
8570.17-10MG	Ciprofloxacin	85721-33-1	neat	neat	10 mg
8570.17-100MG	Ciprofloxacin	85721-33-1	neat	neat	100 mg
10826.17-100MG	Ciprofloxacin hydrochloride	86483-48-9	neat	neat	100 mg

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Catalogue No.	Description (Abbreviation)	Cas No.	Concentration	Solvent	Volume
Ciprofloxacin (continued)					
10706.17-100-W	Ciprofloxacin-d8 hydrochloride (piperazine-d8)	1216659-54-9	100 µg base/mL	water	1 mL
11513.13-100MG	Ciprofloxacin HCl Imp. A	86393-33-1	neat	neat	100mg
9219.15-10MG	Ciprofloxacin EP Impurity C	103222-12-4	neat	neat	10 mg
Clarithromycin					
8766.38-10MG	Clarithromycin	81103-11-9	neat	neat	10 mg
8766.38-100MG	Clarithromycin	81103-11-9	neat	neat	100 mg
8766.38-1G	Clarithromycin	81103-11-9	neat	neat	1 g
8766.38-2G	Clarithromycin	81103-11-9	neat	neat	2g
Clinafloxacin					
13345.17-K-ME	Clinafloxacin	105956-97-6	1000 µg/mL	methanol	1 mL
13345.17-10MG	Clinafloxacin	105956-97-6	neat	neat	10 mg
Clindamycin					
12116.18-100-ME	Clindamycin hydrochloride	21462-39-5	100 µg base/mL	methanol	1 mL
12116.18-500-ME	Clindamycin hydrochloride	21462-39-5	500 µg base/mL	methanol	1 mL
12116.18-K-ME	Clindamycin hydrochloride	21462-39-5	1000 µg base/mL	methanol	1 mL
12116.18-10MG	Clindamycin hydrochloride	21462-39-5	neat	neat	10 mg
12116.18-100MG	Clindamycin hydrochloride	21462-39-5	neat	neat	100 mg
Cloxacillin					
10829.19-100MG	Cloxacillin sodium	642-78-4	neat	neat	100 mg
12406.19-100-ME	Cloxacillin sodium hydrate	7081-44-9	100 µg conj. base/ mL	methanol	1 mL
12406.19-500-ME	Cloxacillin sodium hydrate	7081-44-9	500 µg conj. base/ mL	methanol	1 mL
12406.19-K-ME	Cloxacillin sodium hydrate	7081-44-9	1000 µg conj. base/mL	methanol	1 mL
12406.19-100MG	Cloxacillin sodium hydrate	7081-44-9	neat	neat	100 mg
Colistin					
13198.53-100-W	Colistin sulfate (Mixture of A and B compound)	1264-72-8	100 µg base/mL	water	1 mL
13198.53-K-W	Colistin sulfate (Mixture of A and B compound)	1264-72-8	1000 µg base/mL	water	1 mL
13198.53-10MG	Colistin sulfate (Mixture of A and B compound)	1264-72-8	neat	neat	10 mg
Danofloxacin					
12981.10-100-ME	Danofloxacin	112398-08-0	100 µg/mL	methanol	1 mL
12981.10-500-ME	Danofloxacin	112398-08-0	500 µg/mL	methanol	1 mL
12981.10-K-ME	Danofloxacin	112398-08-0	1000 µg/mL	methanol	1 mL
12981.10-10MG	Danofloxacin	112398-08-0	neat	neat	10 mg
Dapsone					
8499.12-100-AN	Dapsone	80-08-0	100 µg/mL	acetonitrile	1 mL
8499.12-100MG	Dapsone	80-08-0	neat	neat	100 mg
13165.14-100-AN	N-Acetyl dapsone	565-20-8	100 µg/mL	acetonitrile	1 mL

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Catalogue No.	Description (Abbreviation)	Cas No.	Concentration	Solvent	Volume
Dapsone (continued)					
13165.14-500-AN	N-Acetyl dapsone	565-20-8	500 µg/mL	acetonitrile	1 mL
13165.14-K-AN	N-Acetyl dapsone	565-20-8	1000 µg/mL	acetonitrile	1 mL
13165.14-5MG	N-Acetyl dapsone	565-20-8	neat	neat	5 mg
Dehydronifedipine					
13346.17-100-ME	Dehydronifedipine	67035-22-7	100 µg/mL	methanol	1 mL
13346.17-10MG	Dehydronifedipine	67035-22-7	neat	neat	1 mg
Demeclocycline					
13347.21-K-ME	Demeclocycline hydrochloride	64-73-3	1000 µg base/mL	methanol	1 mL
13347.21-10MG	Demeclocycline hydrochloride	64-73-3	neat	neat	10 mg
Desacetyl cephalirin sodium salt					
13171.15-100-ME	Desacetyl cephalirin sodium salt	104557-24-6	100 µg base/mL	methanol	1 mL
13171.15-500-ME	Desacetyl cephalirin sodium salt	104557-24-6	500 µg base/mL	methanol	1 mL
13171.15-K-ME	Desacetyl cephalirin sodium salt	104557-24-6	1000 µg base/mL	methanol	1 mL
13171.15-5MG	Desacetyl cephalirin sodium salt	104557-24-6	neat	neat	5 mg
Desfuoyl Ceftiofur					
13194.14-100-DS	Desfuoylceftiofur (>90%)	120882-22-6	100 µg/mL	DMSO	1 mL
13194.14-K-DS	Desfuoylceftiofur (>90%)	120882-22-6	1000 µg/mL	DMSO	1 mL
13194.14-1MG	Desfuoylceftiofur (>90%)	120882-22-6	neat	neat	1 mg
DBNPA (2,2-Dibromo-2-cyanoacetamide)					
8898.3-100MG	2,2-Dibromo-2-cyanoacetamide	10222-01-2	neat	neat	100 mg
Dicloxacillin					
12407.19-100-ME	Dicloxacillin sodium hydrate	13412-64-1	100 µg conj. base/ mL	methanol	1 mL
12407.19-500-ME	Dicloxacillin sodium hydrate	13412-64-1	500 µg conj. base/ mL	methanol	1 mL
12407.19-K-ME	Dicloxacillin sodium hydrate	13412-64-1	1000 µg conj. base/mL	methanol	1 mL
12407.19-10MG	Dicloxacillin sodium hydrate	13412-64-1	neat	neat	10 mg
N,N-Diethylcarbamazine					
13225.10-100-ME	N,N-Diethylcarbamazine	90-89-1	100 µg/mL	methanol	1 mL
13225.10-K-ME	N,N-Diethylcarbamazine	90-89-1	1000 µg/mL	methanol	1 mL
13225.10-500-ME	N,N-Diethylcarbamazine	90-89-1	500 µg/mL	methanol	1 mL
13225.10-10MG	N,N-Diethylcarbamazine	90-89-1	neat	neat	10 mg
Difloxacin					
12982.21-100-ME	Difloxacin	98106-17-3	100 µg/mL	methanol	1 mL
12982.21-K-ME	Difloxacin	98106-17-3	1000 µg/mL	methanol	1 mL
12075.21-100-ME	Difloxacin hydrochloride	91296-86-5	100 µg base/mL	methanol	1 mL
12075.21-500-ME	Difloxacin hydrochloride	91296-86-5	500 µg base/mL	methanol	1 mL
12075.21-K-ME	Difloxacin hydrochloride	91296-86-5	1000 µg base/mL	methanol	1 mL

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Catalogue No.	Description (Abbreviation)	Cas No.	Concentration	Solvent	Volume
Difloxacin (continued)					
12075.21-250MG	Difloxacin hydrochloride	91296-86-5	neat	neat	250 mg
Digoxigenin					
13348.23-K-ME	Digoxigenin	1672-46-4	1000 µg/mL	methanol	1 mL
13348.23-10MG	Digoxigenin	1672-46-4	neat	neat	10 mg
Dihydromebendazole					
13214.16-100-DS	rac Dihydromebendazole	60254-95-7	100 µg/mL	DMSO	1 mL
13214.16-K-DS	rac Dihydromebendazole	60254-95-7	1000 µg/mL	DMSO	1 mL
13214.16-500-DS	rac Dihydromebendazole	60254-95-7	500 µg/mL	DMSO	1 mL
13214.16-5MG	rac Dihydromebendazole	60254-95-7	neat	neat	5 mg
Doramectin					
13006.50-100-ME	Doramectin	117704-25-3	100 µg/mL	methanol	1 mL
13006.50-K-ME	Doramectin	117704-25-3	1000 µg/mL	methanol	1 mL
13006.50-1MG	Doramectin	117704-25-3	neat	neat	1 mg
Doxycycline (Hydracyclin)					
12970.22-100-ME	Doxycycline	564-25-0	100 µg/mL	methanol	1 mL
12970.22-K-ME	Doxycycline	564-25-0	1000 µg/mL	methanol	1 mL
12970.22-10MG	Doxycycline	564-25-0	neat	neat	10 mg
12066.23-100-ME	Doxycycline hydrochloride hemimethanolate hemihydrate	24390-14-5	100 µg base/mL	methanol	1 mL
12066.23-K-ME	Doxycycline hydrochloride hemimethanolate hemihydrate	24390-14-5	1000 µg base/mL	methanol	1 mL
12066.23-10MG	Doxycycline hydrochloride hemimethanolate hemihydrate	24390-14-5	neat	neat	10 mg
12066.23-100MG	Doxycycline hydrochloride hemimethanolate hemihydrate	24390-14-5	neat	neat	100 mg
Enrofloxacin					
11614.19-100-ME	Enrofloxacin	93106-60-6	100 µg/mL	methanol	1 mL
11614.19-500-ME	Enrofloxacin	93106-60-6	500 µg/mL	methanol	1 mL
11614.19-K-ME	Enrofloxacin	93106-60-6	1000 µg/mL	methanol	1 mL
11614.19-10MG	Enrofloxacin	93106-60-6	neat	neat	10 mg
11614.19-100MG	Enrofloxacin	93106-60-6	neat	neat	100 mg
Enrofloxacin Imp. A, See Ciprofloxacin HCl Imp. A, Cat. No. 11513.13					
Erythromycin					
10090.37-100-ME	Erythromycin	114-07-8	100 µg/mL	methanol	1 mL
10090.37-500-ME	Erythromycin	114-07-8	500 µg/mL	methanol	1 mL
10090.37-K-ME	Erythromycin	114-07-8	1000 µg/mL	methanol	1 mL
10090.37-10MG	Erythromycin	114-07-8	neat	neat	10 mg
10090.37-100MG	Erythromycin	114-07-8	neat	neat	100 mg
13330.37-K-ME	Erythromycin A dihydrate	59319-72-1	1000 µg base/mL	methanol	1 mL
13330.37-10MG	Erythromycin A dihydrate	59319-72-1	neat	neat	10 mg
11612.36-10MG	Erythromycin C (3'-O-Desmethylethromycin)	1675-02-1	neat	neat	10mg
10851.43-10MG	Erythromycin ethyl succinate	1264-62-6	neat	neat	10 mg

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Catalogue No.	Description (Abbreviation)	Cas No.	Concentration	Solvent	Volume
Erythromycin (continued)					
12500.37-100-ME	Anhydroerythromycin A (Erythromycin Impurity D)	23893-13-2	100 µg/mL	methanol	1 mL
Fenbendazole					
12504.15-100-ME	Fenbendazole	43210-67-9	100 µg/mL	methanol	1 mL
12504.15-K-ME	Fenbendazole	43210-67-9	1000 µg/mL	methanol	1 mL
12504.15-10MG	Fenbendazole	43210-67-9	neat	neat	10 mg
13212.15-100-DS	Fenbendazole sulfone	54029-20-8	100 µg/mL	DMSO	1 mL
13212.15-5MG	Fenbendazole sulfone	54029-20-8	neat	neat	5 mg
Febantel					
13001.20-10MG	Febantel	58306-30-2	neat	neat	10 mg
Florfenicol					
12998.12-10MG	Florfenicol	73231-34-2	neat	neat	10 mg
13164.10-100-ME	Florfenicol amine hydrochloride	108656-33-3	100 µg base/mL	methanol	1 mL
13164.10-500-ME	Florfenicol amine hydrochloride	108656-33-3	500 µg base/mL	methanol	1 mL
13164.10-K-ME	Florfenicol amine hydrochloride	108656-33-3	1000 µg base/mL	methanol	1 mL
13164.10-5MG	Florfenicol amine hydrochloride	108656-33-3	neat	neat	5 mg
Flubendazole					
13000.16-100MG	Flubendazole	31430-15-6	neat	neat	100 mg
Flumequine					
12074.14-100-ME	Flumequine	42835-25-6	100 µg/mL	methanol	1 mL
12074.14-500-ME	Flumequine	42835-25-6	500 µg/mL	methanol	1 mL
12074.14-K-ME	Flumequine	42835-25-6	1000 µg/mL	methanol	1 mL
12074.14-250MG	Flumequine	42835-25-6	neat	neat	250 mg
Gentamycin (Gentamicin)					
13089.21-100-W	Gentamycin sulfate (mixture of isomers)	1405-41-0	100 µg base/mL	water	1 mL
13089.21-K-W	Gentamycin sulfate (mixture of isomers)	1405-41-0	1000 µg base/mL	water	1 mL
13089.21-10MG	Gentamycin sulfate (mixture of isomers)	1405-41-0	neat	neat	250 mg
13261.20-100-W	Gentamicin C2a sulfate	59751-72-3	100 µg base/mL	water	1 mL
13261.20-1MG	Gentamicin C2a sulfate	59751-72-3	neat	neat	1 mg
13262.30-100-ME	Gentamicin C2 Pentaacetate Salt (2 : 1 Mixture of C2 and C2a) 95%	25876-11-3 (free base)	100 base µg/mL	methanol	1 mL
13262.30-1MG	Gentamicin C2 Pentaacetate Salt (2 : 1 Mixture of C2 and C2a) 95%	25876-11-3 (free base)	neat	neat	1 mg
Hygromycin B					
13095.20-100-ME	Hygromycin B	31282-04-9	100 µg/mL	methanol	1 mL
13095.20-K-ME	Hygromycin B	31282-04-9	1000 µg/mL	methanol	1 mL
13095.20-10MG	Hygromycin B	31282-04-9	neat	neat	10 mg
Isoniazid (Isonicotinic acid)					
9351.6-K-ME	Isoniazid	54-85-3	1000 µg/mL	methanol	1 mL

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Catalogue No.	Description (Abbreviation)	Cas No.	Concentration	Solvent	Volume
Isoniazid (Isonicotinic acid) (continued)					
9351.6-250MG	Isoniazid	54-85-3	neat	neat	250 mg
Isonicotinaldehyde (4-Pyridinecarboxaldehyde)					
10032.6-10MG	Isonicotinaldehyde	872-85-5	neat	neat	10 mg
Josamycin					
12987.42-100-ME	Josamycin	16846-24-5	100 µg/mL	methanol	1 mL
12987.42-500-ME	Josamycin	16846-24-5	500 µg/mL	methanol	1 mL
12987.42-K-ME	Josamycin	16846-24-5	1000 µg/mL	methanol	1 mL
12987.42-10MG	Josamycin	16846-24-5	neat	neat	10 mg
Kanamycin A					
13094.18-100-ME	Kanamycin A	59-01-8	100 µg/mL	methanol	1 mL
13094.18-K-W	Kanamycin A	59-01-8	1000 µg/mL	water	1 mL
13094.18-10MG	Kanamycin A	59-01-8	neat	neat	10 mg
Kitasamycin (Leucomycin)					
12986.27-100-ME	Kitasamycin, mixture of isomers A0-A9	1392-21-8	100 µg/mL	methanol	1 mL
12986.27-K-ME	Kitasamycin, mixture of isomers A0-A9	1392-21-8	1000 µg/mL	methanol	1 mL
12986.27-10MG	Kitasamycin, mixture of isomers A0-A9	1392-21-8	neat	neat	10 mg
Lasalocid					
12507.34-100-AN	Lasalocid sodium salt	25999-20-6	100 µg conj. base/ mL	acetonitrile	1 mL
12507.34-500-AN	Lasalocid sodium salt	25999-20-6	500 µg conj. base/ mL	acetonitrile	1 mL
12507.34-K-AN	Lasalocid sodium salt	25999-20-6	1000 µg conj. base/mL	acetonitrile	1 mL
12507.34-10MG	Lasalocid sodium salt	25999-20-6	neat	neat	10 mg
Levofloxacin					
12080.18-10MG	Levofloxacin	100986-85-4	neat	neat	10 mg
Lincomycin					
12121.18-100-ME	Lincomycin hydrochloride	859-18-7	100 µg base/mL	methanol	1 mL
12121.18-500-ME	Lincomycin hydrochloride	859-18-7	500 µg base/mL	methanol	1 mL
12121.18-K-ME	Lincomycin hydrochloride	859-18-7	1000 µg base/mL	methanol	1 mL
12121.18-10MG	Lincomycin hydrochloride	859-18-7	neat	neat	100 mg
12121.18-100MG	Lincomycin hydrochloride	859-18-7	neat	neat	100 mg
Lomefloxacin					
12162.17-100MG	Lomefloxacin hydrochloride	98079-52-8	neat	neat	100 mg
Marbofloxacin					
12076.17-100-ME	Marbofloxacin	115550-35-1	100 µg/mL	methanol	1 mL
12076.17-500-ME	Marbofloxacin	115550-35-1	500 µg/mL	methanol	1 mL
12076.17-K-ME	Marbofloxacin	115550-35-1	1000 µg/mL	methanol	1 mL
12076.17-100MG	Marbofloxacin	115550-35-1	neat	neat	100 mg

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Catalogue No.	Description (Abbreviation)	Cas No.	Concentration	Solvent	Volume
Mebendazole					
13004.16-100-ME	Mebendazole	31431-39-7	100 µg/mL	methanol	1 mL
13004.16-K-ME	Mebendazole	31431-39-7	1000 µg/mL	methanol	1 mL
13004.16-100MG	Mebendazole	31431-39-7	neat	neat	100 mg
13213.14-100-ME	Mebendazole amine	52329-60-9	100 µg/mL	methanol	1 mL
13213.14-K-ME	Mebendazole amine	52329-60-9	1000 µg/mL	methanol	1 mL
13213.14-500-ME	Mebendazole amine	52329-60-9	500 µg/mL	methanol	1 mL
13213.14-5MG	Mebendazole amine	52329-60-9	neat	neat	5 mg
Meropenem					
10827.17-100MG	Meropenem trihydrate	119478-56-7	neat	neat	100 mg
Metronidazole (2-Methyl-5-nitroimidazole-1-ethanol)					
11903.6-100-ME	Metronidazole	443-48-1	100 µg/mL	methanol	1 mL
11903.6-500-ME	Metronidazole	443-48-1	500 µg/mL	methanol	1 mL
11903.6-K-ME	Metronidazole	443-48-1	1000 µg/mL	methanol	1 mL
11903.6-250MG	Metronidazole	443-48-1	neat	neat	250 mg
4-Methylaminoantipyrine					
13221.12-100-ME	4-Methylaminoantipyrine hydrochloride	519-98-2	100 µg base/mL	methanol	1 mL
13221.12-K-ME	4-Methylaminoantipyrine hydrochloride	519-98-2	1000 µg base/mL	methanol	1 mL
13221.12-500-ME	4-Methylaminoantipyrine hydrochloride	519-98-2	500 µg base/mL	methanol	1 mL
13221.12-5MG	4-Methylaminoantipyrine hydrochloride	519-98-2	neat	neat	5 mg
Minocycline					
12164.23-10MG	Minocycline hydrochloride	13614-98-7	neat	neat	10 mg
Monensin					
12505.36-100-ME	Monensin sodium salt, 90+ %	22373-78-0	100 µg conj. base/ mL	methanol	1 mL
12505.36-500-ME	Monensin sodium salt, 90+ %	22373-78-0	500 µg conj. base/ mL	methanol	1 mL
12505.36-K-ME	Monensin sodium salt, 90+ %	22373-78-0	1000 µg conj. base/mL	methanol	1 mL
12505.36-10MG	Monensin sodium salt, 90+ %	22373-78-0	neat	neat	10 mg
12505.36-50MG	Monensin sodium salt, 90+ %	22373-78-0	neat	neat	50 mg
Moxidectin					
13007.37-100-ME	Moxidectin	113507-06-5	100 µg/mL	methanol	1 mL
13007.37-K-ME	Moxidectin	113507-06-5	1000 µg/mL	methanol	1 mL
13007.37-10MG	Moxidectin	113507-06-5	neat	neat	10 mg
Moxifloxacin					
12111.21-50MG	Moxifloxacin hydrochloride	186826-86-8	neat	neat	50 mg
Nafcillin					
12405.21-100-ME	Nafcillin sodium hydrate	7177-50-6	100 µg conj. base/ mL	methanol	1 mL

BMF 92 - Antibiotics

Catalogue No.	Description (Abbreviation)	Cas No.	Concentration	Solvent	Volume
Nafcillin (continued)					
12405.21-500-ME	Nafcillin sodium hydrate	7177-50-6	500 µg conj. base/ mL	methanol	1 mL
12405.21-K-ME	Nafcillin sodium hydrate	7177-50-6	1000 µg conj. base/mL	methanol	1 mL
12405.21-10MG	Nafcillin sodium hydrate	7177-50-6	neat	neat	10 mg
Nalidixic acid					
12073.12-100-ME	Nalidixic acid	389-08-2	100 µg/mL	methanol	1 mL
12073.12-500-ME	Nalidixic acid	389-08-2	500 µg/mL	methanol	1 mL
12073.12-K-ME	Nalidixic acid	389-08-2	1000 µg/mL	methanol	1 mL
12073.12-100MG	Nalidixic acid	389-08-2	neat	neat	100 mg
Naracin (4-Methylsalinomycin)					
12508.43-100-AN	Naracin sodium salt	58331-17-2	100 µg conj. base/ mL	acetonitrile	1 mL
12508.43-5MG	Naracin sodium salt	58331-17-2	neat	neat	5 mg
Neomycin					
13090.23-100-W	Neomycin sulfate hydrate	1405-10-3	100 µg anh. base/ mL	water	1 mL
13090.23-K-W	Neomycin sulfate hydrate	1405-10-3	1000 µg anh. base/ mL	water	1 mL
13090.23-100MG	Neomycin sulfate hydrate	1405-10-3	neat	neat	100 mg
Norfloxacin					
11422.16-100-ME	Norfloxacin	70458-96-7	100 µg/mL	methanol	1 mL
11422.16-500-ME	Norfloxacin	70458-96-7	500 µg/mL	methanol	1 mL
11422.16-K-ME	Norfloxacin	70458-96-7	1000 µg/mL	methanol	1 mL
11422.16-100MG	Norfloxacin	70458-96-7	neat	neat	100 mg
Novobiocin					
13015.31-100-ME	Novobiocin	303-81-1	100 µg/mL	methanol	1 mL
13015.31-K-ME	Novobiocin	303-81-1	1000 µg/mL	methanol	1 mL
13015.31-5MG	Novobiocin	303-81-1	neat	neat	5 mg
Ofloxacin					
12122.18-100-ME	Ofloxacin	82419-36-1	100 µg/mL	methanol	1 mL
12122.18-500-ME	Ofloxacin	82419-36-1	500 µg/mL	methanol	1 mL
12122.18-K-ME	Ofloxacin	82419-36-1	1000 µg/mL	methanol	1 mL
12122.18-10MG	Ofloxacin	82419-36-1	neat	neat	10 mg
12122.18-100MG	Ofloxacin	82419-36-1	neat	neat	100 mg
Olaquinox					
13013.12-10-AN	Olaquinox	23696-28-8	10 µg/mL	acetonitrile	1 mL
13013.12-10MG	Olaquinox	23696-28-8	neat	neat	10 mg

BMF 92 - Antibiotics

Catalogue No.	Description (Abbreviation)	Cas No.	Concentration	Solvent	Volume
Oleandomycin					
12988.35-100-ME	Oleandomycin	3922-90-5	100 µg/mL	methanol	1 mL
12988.35-500-ME	Oleandomycin	3922-90-5	500 µg/mL	methanol	1 mL
12988.35-K-ME	Oleandomycin	3922-90-5	1000 µg/mL	methanol	1 mL
12988.35-10MG	Oleandomycin	3922-90-5	neat	neat	10 mg
Orbifloxacin					
12984.19-100-ME	Orbifloxacin	113617-63-3	100 µg/mL	methanol	1 mL
12984.19-K-ME	Orbifloxacin	113617-63-3	1000 µg/mL	methanol	1 mL
12984.19-10MG	Orbifloxacin	113617-63-3	neat	neat	10 mg
Ormetoprim					
12165.14-100-ME	Ormetoprim	6981-18-6	100 µg/mL	methanol	1 mL
12165.14-500-ME	Ormetoprim	6981-18-6	500 µg/mL	methanol	1 mL
12165.14-K-ME	Ormetoprim	6981-18-6	1000 µg/mL	methanol	1 mL
12165.14-10MG	Ormetoprim	6981-18-6	neat	neat	10 mg
Oxacillin					
12166.19-100-ME	Oxacillin sodium salt monohydrate	7240-38-2	100 µg conj. base/ mL	methanol	1 mL
12166.19-500-ME	Oxacillin sodium salt monohydrate	7240-38-2	500 µg conj. base/ mL	methanol	1 mL
12166.19-K-ME	Oxacillin sodium salt monohydrate	7240-38-2	1000 µg conj. base/mL	methanol	1 mL
12166.19-10MG	Oxacillin sodium salt monohydrate	7240-38-2	neat	neat	10 mg
Oxfendazole					
13002.15-100-ME	Oxfendazole	53716-50-0	100 µg/mL	methanol	1 mL
13002.15-K-ME	Oxfendazole	53716-50-0	1000 µg/mL	methanol	1 mL
13002.15-10MG	Oxfendazole	53716-50-0	neat	neat	10 mg
Oxolinic acid					
12067.13-100-ME	Oxolinic acid	14698-29-4	100 µg/mL	methanol	1 mL
12067.13-10MG	Oxolinic acid	14698-29-4	neat	neat	10 mg
Oxybendazole					
13003.12-100-ME	Oxybendazole	20559-55-1	100 µg/mL	methanol	1 mL
13003.12-10MG	Oxybendazole	20559-55-1	neat	neat	10 mg
Oxytetracycline					
10652.22-100-AN	Oxytetracycline	79-57-2	100 µg/mL	acetonitrile	1 mL
10652.22-500-AN	Oxytetracycline	79-57-2	500 µg/mL	acetonitrile	1 mL
10652.22-K-AN	Oxytetracycline	79-57-2	1000 µg/mL	acetonitrile	1 mL
10652.22-K-ME	Oxytetracycline	79-57-2	1000 µg/mL	methanol	1 mL
10652.22-10MG	Oxytetracycline	79-57-2	neat	neat	10 mg
10652.22-100MG	Oxytetracycline	79-57-2	neat	neat	100 mg
12606.22-K-ME	4-epi-Oxytetracycline	14206-58-7	1000 µg/mL	methanol	1 mL

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Catalogue No.	Description (Abbreviation)	Cas No.	Concentration	Solvent	Volume
Oxytetracycline (continued)					
12606.22-10MG	4-epi-Oxytetracycline	14206-58-7	neat	neat	10 mg
10653.22-025-dried	U-[13C22 15N2]-Oxytetracycline	N/A	2.5 µg/mL	dried down	1 mL
Penicillin					
10828.16-100-ME	Penicillin G potassium salt	113-98-4	100 µg conj. base/ mL	methanol	1 mL
10828.16-500-ME	Penicillin G potassium salt	113-98-4	500 µg conj. base/ mL	methanol	1 mL
10828.16-K-ME	Penicillin G potassium salt	113-98-4	1000 µg conj. base/mL	methanol	1 mL
10828.16-10MG	Penicillin G potassium salt	113-98-4	neat	neat	10 mg
10828.16-100MG	Penicillin G potassium salt	113-98-4	neat	neat	100 mg
13333.16-K-ME	Penicillin V	87-08-1	1000 µg/mL	methanol	1 mL
13333.16-10MG	Penicillin V	87-08-1	neat	neat	10 mg
13334.16-K-ME	Penicillin V potassium salt	132-98-9	1000 µg conj. base/mL	methanol	1 mL
13334.16-10-MG	Penicillin V potassium salt	132-98-9	neat	neat	10 mg
Perfloxacin					
12510.17-100-ME	Pefloxacin	70458-92-3	100 µg/mL	methanol	1 mL
12510.17-500-ME	Pefloxacin	70458-92-3	500 µg/mL	methanol	1 mL
12510.17-K-ME	Pefloxacin	70458-92-3	1000 µg/mL	methanol	1 mL
12510.17-10MG	Pefloxacin	70458-92-3	neat	neat	10 mg
12510.17-100MG	Pefloxacin	70458-92-3	neat	neat	100 mg
Phthalylsulfathiazole					
13220.17-100-ME	Phthalylsulfathiazole	85-73-4	100 µg/mL	methanol	1 mL
13220.17-K-ME	Phthalylsulfathiazole	85-73-4	1000 µg/mL	methanol	1 mL
13220.17-500-ME	Phthalylsulfathiazole	85-73-4	500 µg/mL	methanol	1 mL
13220.17-100MG	Phthalylsulfathiazole	85-73-4	neat	neat	100 mg
Piperacillin					
10823.23-K-ME	Piperacillin sodium salt	59703-84-3	1000 µg conj. base/mL	methanol	1 mL
10823.23-100MG	Piperacillin sodium salt	59703-84-3	neat	neat	100 mg
12395.26-K-ME	Piperacillin, 95%	61477-96-1	1000 µg/mL	methanol	1 mL
Povidone (PVP)					
9226.6-100MG	Povidone (polymer)	9003-39-8	neat	neat	100 mg
9222.6-100MG	Povidone Imp. A (1-Ethenylpyrrolidin-2-one (1-Vinylpyrrolidin-2-one))	88-12-0	neat	neat	100 mg
Praziquantel					
13229.19-100-DC	Praziquantel	55268-74-1	100 µg/mL	dichlo- romethane	1 mL

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Catalogue No.	Description (Abbreviation)	Cas No.	Concentration	Solvent	Volume
Praziquantel (continued)					
13229.19-K-DC	Praziquantel	55268-74-1	1000 µg/mL	dichloromethane	1 mL
13229.19-500-DC	Praziquantel	55268-74-1	500 µg/mL	dichloromethane	1 mL
13229.19-10MG	Praziquantel	55268-74-1	neat	neat	10 mg
Pyrazinamide (Pyrazinoic acid amide)					
13097.5-K-ME	Pyrazinamide	98-96-4	1000 µg/mL	methanol	1 mL
Ractopamine					
13085.18-10MG	Ractopamine hydrochloride	90274-24-1	neat	neat	10 mg
Rifampin (Rifampicin)					
12559.43-K-ME	Rifampin	13292-46-1	1000 µg/mL	methanol	1 mL
12559.43-250MG	Rifampin	13292-46-1	neat	neat	250 mg
Rifaximin					
13166.43-100-ME	Rifaximin	80621-81-4	100 µg/mL	methanol	1 mL
13166.43-10MG	Rifaximin	80621-81-4	neat	neat	10 mg
Ronidazole					
13014.6-100MG	Ronidazole	7681-76-7	neat	neat	100 mg
Roxithromycin					
12501.41-100-ME	Roxithromycin	80214-83-1	100 µg/mL	methanol	1 mL
12501.41-500-ME	Roxithromycin	80214-83-1	500 µg/mL	methanol	1 mL
12501.41-K-ME	Roxithromycin	80214-83-1	1000 µg/mL	methanol	1 mL
12501.41-10MG	Roxithromycin	80214-83-1	neat	neat	10 mg
Salinomycin					
13326.42-100-ME	Salinomycin sodium salt x-hydrate	55721-31-8 (anhydrous)	100 µg conj. base/mL	methanol	1 mL
13326.42-500-ME	Salinomycin sodium salt x-hydrate	55721-31-8 (anhydrous)	500 µg conj. base/mL	methanol	1 mL
13326.42-K-ME	Salinomycin sodium salt x-hydrate	55721-31-8 (anhydrous)	1000 µg conj. base/mL	methanol	1 mL
13326.42-10MG	Salinomycin sodium salt x-hydrate	55721-31-8 (anhydrous)	neat	neat	10 mg
Sarafloxacin					
12983.20-100-ME	Sarafloxacin	98105-99-8	100 µg/mL	methanol	1 mL
12983.20-500-ME	Sarafloxacin	98105-99-8	500 µg/mL	methanol	1 mL
12983.20-K-ME	Sarafloxacin	98105-99-8	1000 µg/mL	methanol	1 mL
12983.20-10MG	Sarafloxacin	98105-99-8	neat	neat	10 mg
Semicarbazide (SEM)					
12991.1-100-ME	Semicarbazide	57-56-7	100 µg/mL	methanol	1 mL
12991.1-K-ME	Semicarbazide	57-56-7	1000 µg/mL	methanol	1 mL

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Catalogue No.	Description (Abbreviation)	Cas No.	Concentration	Solvent	Volume
Semicarbazide (SEM) (continued)					
12078.1-100-ME	Semicarbazide hydrochloride	563-41-7	100 µg base/mL	methanol	1 mL
12078.1-K-ME	Semicarbazide hydrochloride	563-41-7	1000 µg base/mL	methanol	1 mL
12078.1-100MG	Semicarbazide hydrochloride	563-41-7	neat	neat	100 mg
Spectinomycin					
13092.14-100-ME	Spectinomycin dihydrochloride pentahydrate	22189-32-8	100 µg anh. base/ mL	methanol	1 mL
13092.14-500-ME	Spectinomycin dihydrochloride pentahydrate	22189-32-8	500 µg anh. base/ mL	methanol	1 mL
13092.14-K-ME	Spectinomycin dihydrochloride pentahydrate	22189-32-8	1000 µg anh. base/ mL	methanol	1 mL
13092.14-250MG	Spectinomycin dihydrochloride pentahydrate	22189-32-8	neat	neat	250 mg
Spiramycin					
12071.43-100-ME	Spiramycin	8025-81-8	100 µg/mL	methanol	1 mL
12071.43-500-ME	Spiramycin	8025-81-8	500 µg/mL	methanol	1 mL
12071.43-K-ME	Spiramycin	8025-81-8	1000 µg/mL	methanol	1 mL
12071.43-100MG	Spiramycin	8025-81-8	neat	neat	100 mg
Streptomycin					
12077.21-100-HCL	Streptomycin sulfate	3810-74-0	100 µg base/mL	0.1 M HCl	1 mL
12077.21-K-HCL	Streptomycin sulfate	3810-74-0	1000 µg base/mL	0.1 M HCl	1 mL
12077.21-10MG	Streptomycin sulfate	3810-74-0	neat	neat	10 mg
12077.21-250MG	Streptomycin sulfate	3810-74-0	neat	neat	250 mg
12077.21-10MG	Streptomycin sulfate	3810-74-0	neat	neat	10 mg
12077.21-250MG	Streptomycin sulfate	3810-74-0	neat	neat	250 mg
13196.21-100-ME	Dihydrostreptomycin sesquisulfate	5490-27-7	100 µg base/mL	methanol	1 mL
13196.21-K-ME	Dihydrostreptomycin sesquisulfate	5490-27-7	1000 µg base/mL	methanol	1 mL
13196.21-100MG	Dihydrostreptomycin sesquisulfate	5490-27-7	neat	neat	100 mg
Sulfaclozine					
13170.10-500-ME	Sulfaclozine	102-65-8	500 µg/mL	methanol	1 mL
13170.10-K-ME	Sulfaclozine	102-65-8	1000 µg/mL	methanol	1 mL
Sulfachlorpyridazine					
12975.10-100-ME	Sulfachlorpyridazine	80-32-0	100 µg/mL	methanol	1 mL
12975.10-500-ME	Sulfachlorpyridazine	80-32-0	500 µg/mL	methanol	1 mL
12975.10-K-ME	Sulfachlorpyridazine	80-32-0	1000 µg/mL	methanol	1 mL
12975.10-10MG	Sulfachlorpyridazine	80-32-0	neat	neat	10 mg
Sulfadiazine					
10893.10-100-ME	Sulfadiazine	68-35-9	100 µg/mL	methanol	1 mL
10893.10-500-ME	Sulfadiazine	68-35-9	500 µg/mL	methanol	1 mL
10893.10-K-ME	Sulfadiazine	68-35-9	1000 µg/mL	methanol	1 mL

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Catalogue No.	Description (Abbreviation)	Cas No.	Concentration	Solvent	Volume
Sulfadiazine (continued)					
10893.10-100MG	Sulfadiazine	68-35-9	neat	neat	100 mg
10894.10-100-ME	4-Hydroxysulfadiazine	56305-66-9	100 µg/mL	methanol	1 mL
10894.10-10-ME	4-Hydroxysulfadiazine	56305-66-9	10 µg/mL	methanol	1 mL
10894.10-1MG	4-Hydroxysulfadiazine	56305-66-9	neat	neat	1 mg
10894.10-5MG	4-Hydroxysulfadiazine	56305-66-9	neat	neat	5 mg
Sulfadimethoxine					
12070.12-100-ME	Sulfadimethoxine	122-11-2	100 µg/mL	methanol	1 mL
12070.12-500-ME	Sulfadimethoxine	122-11-2	500 µg/mL	methanol	1 mL
12070.12-K-ME	Sulfadimethoxine	122-11-2	1000 µg/mL	methanol	1 mL
12070.12-10MG	Sulfadimethoxine	122-11-2	neat	neat	10 mg
12070.12-250MG	Sulfadimethoxine	122-11-2	neat	neat	250 mg
Sulfadoxine					
12971.12-100-ME	Sulfadoxine	2447-57-6	100 µg/mL	methanol	1 mL
12971.12-500-ME	Sulfadoxine	2447-57-6	500 µg/mL	methanol	1 mL
12971.12-K-ME	Sulfadoxine	2447-57-6	1000 µg/mL	methanol	1 mL
12971.12-100MG	Sulfadoxine	2447-57-6	neat	neat	100 mg
Sulfaethoxy pyridazine					
13222.12-100-ME	Sulfaethoxy pyridazine	963-14-4	100 µg/mL	methanol	1 mL
13222.12-K-ME	Sulfaethoxy pyridazine	963-14-4	1000 µg/mL	methanol	1 mL
13222.12-500-ME	Sulfaethoxy pyridazine	963-14-4	500 µg/mL	methanol	1 mL
13222.12-10MG	Sulfaethoxy pyridazine	963-14-4	neat	neat	10 mg
Sulfaguandin					
12978.7-100-ME	Sulfaguandin	57-67-0	100 µg/mL	methanol	1 mL
12978.7-500-ME	Sulfaguandin	57-67-0	500 µg/mL	methanol	1 mL
12978.7-K-ME	Sulfaguandin	57-67-0	1000 µg/mL	methanol	1 mL
12978.7-100MG	Sulfaguandin	57-67-0	neat	neat	100 mg
Sulfamerazine (Sulfanilamide)					
12068.11-100-ME	Sulfamerazine	127-79-7	100 µg/mL	methanol	1 mL
12068.11-500-ME	Sulfamerazine	127-79-7	500 µg/mL	methanol	1 mL
12068.11-K-ME	Sulfamerazine	127-79-7	1000 µg/mL	methanol	1 mL
12068.11-10MG	Sulfamerazine	127-79-7	neat	neat	10 mg
12068.11-250MG	Sulfamerazine	127-79-7	neat	neat	250 mg
Sulfamethazine (Sulfadimidine)					
12069.12-100-ME	Sulfamethazine	57-68-1	100 µg/mL	methanol	1 mL
12069.12-500-ME	Sulfamethazine	57-68-1	500 µg/mL	methanol	1 mL
12069.12-K-ME	Sulfamethazine	57-68-1	1000 µg/mL	methanol	1 mL

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Catalogue No.	Description (Abbreviation)	Cas No.	Concentration	Solvent	Volume
Sulfamethazine (Sulfadimidine) (continued)					
12069.12-10MG	Sulfamethazine	57-68-1	neat	neat	10 mg
12069.12-250MG	Sulfamethazine	57-68-1	neat	neat	250 mg
Sulfamethizole					
13335.9-K-ME	Sulfamethizole	144-82-1	1000 µg/mL	methanol	1 mL
13335.9-10MG	Sulfamethizole	144-82-1	neat	neat	10 mg
Sulfamethoxazole					
9503.10-100-ME	Sulfamethoxazole	723-46-6	100 µg/mL	methanol	1 mL
9503.10-500-ME	Sulfamethoxazole	723-46-6	500 µg/mL	methanol	1 mL
9503.10-K-ME	Sulfamethoxazole	723-46-6	1000 µg/mL	methanol	1 mL
9503.10-10MG	Sulfamethoxazole	723-46-6	neat	neat	100 mg
9503.10-100MG	Sulfamethoxazole	723-46-6	neat	neat	100 mg
10913.10-100-ME	Sulfamethoxazole-d4 (benzene-d4)	1020719-86-1	100 µg/mL	methanol	1 mL
Sulfamethoxy pyridazine					
12972.11-100-ME	Sulfamethoxy pyridazine	80-35-3	100 µg/mL	methanol	1 mL
12972.11-K-ME	Sulfamethoxy pyridazine	80-35-3	1000 µg/mL	methanol	1 mL
12972.11-100MG	Sulfamethoxy pyridazine	80-35-3	neat	neat	100 mg
Sulfamonomethoxine					
12973.11-100-ME	Sulfamonomethoxine	1220-83-3	100 µg/mL	methanol	1 mL
12973.11-500-ME	Sulfamonomethoxine	1220-83-3	500 µg/mL	methanol	1 mL
12973.11-K-ME	Sulfamonomethoxine	1220-83-3	1000 µg/mL	methanol	1 mL
12973.11-10MG	Sulfamonomethoxine	1220-83-3	neat	neat	100 mg
Sulfanilamide					
13336.6-K-ME	Sulfanilamide	63-74-1	1000 µg/mL	methanol	1 mL
13336.6-100MG	Sulfanilamide	63-74-1	neat	neat	100 mg
Sulfaphenazole					
12976.15-100-ME	Sulfaphenazole	526-08-9	100 µg/mL	methanol	1 mL
12976.15-500-ME	Sulfaphenazole	526-08-9	500 µg/mL	methanol	1 mL
12976.15-K-ME	Sulfaphenazole	526-08-9	1000 µg/mL	methanol	1 mL
12976.15-10MG	Sulfaphenazole	526-08-9	neat	neat	10 mg
Sulfaquinoxaline					
12974.14-100-ME	Sulfaquinoxaline	59-40-5	100 µg/mL	methanol	1 mL
12974.14-500-ME	Sulfaquinoxaline	59-40-5	500 µg/mL	methanol	1 mL
12974.14-K-ME	Sulfaquinoxaline	59-40-5	1000 µg/mL	methanol	1 mL
12974.14-10MG	Sulfaquinoxaline	59-40-5	neat	neat	10 mg
Sulfisoxazole					
12977.11-100-ME	Sulfisoxazole	127-69-5	100 µg/mL	methanol	1 mL

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Catalogue No.	Description (Abbreviation)	Cas No.	Concentration	Solvent	Volume
Sulfisoxazole (continued)					
12977.11-500-ME	Sulfisoxazole	127-69-5	500 µg/mL	methanol	1 mL
12977.11-K-ME	Sulfisoxazole	127-69-5	1000 µg/mL	methanol	1 mL
12977.11-100MG	Sulfisoxazole	127-69-5	neat	neat	100 mg
Sulphathiazole (Sulfathiazole)					
11425.9-100-ME	Sulphathiazole	72-14-0	100 µg/mL	methanol	1 mL
11425.9-500-ME	Sulphathiazole	72-14-0	500 µg/mL	methanol	1 mL
11425.9-K-ME	Sulphathiazole	72-14-0	1000 µg/mL	methanol	1 mL
11425.9-10MG	Sulphathiazole	72-14-0	neat	neat	10 mg
11425.9-250MG	Sulphathiazole	72-14-0	neat	neat	250 mg
Tazobactam					
10825.10-100MG	Tazobactam	89786-04-9	neat	neat	100 mg
Tetracycline					
10858.22-100-ME	Tetracycline hydrochloride	64-75-5	100 µg base/mL	methanol	1 mL
10858.22-500-ME	Tetracycline hydrochloride	64-75-5	500 µg base/mL	methanol	1 mL
10858.22-K-ME	Tetracycline hydrochloride	64-75-5	1000 µg base/mL	methanol	1 mL
10858.22-10MG	Tetracycline hydrochloride	64-75-5	neat	neat	10 mg
10858.22-100MG	Tetracycline hydrochloride	64-75-5	neat	neat	100 mg
13329.22-K-ME	4-Epitetracycline hydrochloride	23313-80-6	1000 µg/mL	methanol	1 mL
13329.22-10MG	4-Epitetracycline hydrochloride	23313-80-6	neat	neat	10 mg
13344.22-K-ME	Anhydrotetracycline hydrochloride	13803-65-1	1000 µg/mL	methanol	1 mL
13344.22-10MG	Anhydrotetracycline hydrochloride	13803-65-1	neat	neat	10 mg
13327.22-K-ME	4-Epianhydrotetracycline hydrochloride	4465-65-0	1000 µg/mL	methanol	1 mL
13327.22-10MG	4-Epianhydrotetracycline hydrochloride	4465-65-0	neat	neat	10 mg
Thiabendazole					
3513.10-100MG	Thiabendazole	148-79-8	neat	neat	100 mg
Thiamphenicol					
12999.12-100-AN	Thiamphenicol	15318-45-3	100 µg/mL	acetonitrile	1 mL
12999.12-500-AN	Thiamphenicol	15318-45-3	500 µg/mL	acetonitrile	1 mL
12999.12-K-AN	Thiamphenicol	15318-45-3	1000 µg/mL	acetonitrile	1 mL
12999.12-10MG	Thiamphenicol	15318-45-3	neat	neat	10 mg
Tiamulin					
12990.28-100-ME	Tiamulin	55297-95-5	100 µg/mL	methanol	1 mL
12990.28-500-ME	Tiamulin	55297-95-5	500 µg/mL	methanol	1 mL
12990.28-K-ME	Tiamulin	55297-95-5	1000 µg/mL	methanol	1 mL
12990.28-10MG	Tiamulin	55297-95-5	neat	neat	10 mg
Tildipirosin					
13167.41-100-ME	Tildipirosin	328898-40-4	100 µg/mL	methanol	1 mL

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Catalogue No.	Description (Abbreviation)	Cas No.	Concentration	Solvent	Volume
Tildipirosin (continued)					
13167.41-500-ME	Tildipirosin	328898-40-4	500 µg/mL	methanol	1 mL
13167.41-K-ME	Tildipirosin	328898-40-4	1000 µg/mL	methanol	1 mL
13167.41-10MG	Tildipirosin	328898-40-4	neat	neat	10 mg
Tilmicosin (Micotil)					
12072.46-100-ME	Tilmicosin	108050-54-0	100 µg/mL	methanol	1 mL
12072.46-500-ME	Tilmicosin	108050-54-0	500 µg/mL	methanol	1 mL
12072.46-K-ME	Tilmicosin	108050-54-0	1000 µg/mL	methanol	1 mL
12072.46-250MG	Tilmicosin	108050-54-0	neat	neat	250 mg
12072.46-250MG	Tilmicosin	108050-54-0	neat	neat	250 mg
Tobramycin					
10860.18-100MG	Tobramycin	32986-56-4	neat	neat	100 mg
Triclocarban					
13339.13-K-ME	Triclocarban	101-20-2	1000 µg/mL	methanol	1 mL
13339.13-100MG	Triclocarban	101-20-2	neat	neat	100 mg
13340.7-100-DS	Triclocarban-13C6	1216457-76-9	100 µg/mL	DMSO	1 mL
Trimethoprim					
9469.14-100-ME	Trimethoprim	738-70-5	100 µg/mL	methanol	1mL
9469.14-500-ME	Trimethoprim	738-70-5	500 µg/mL	methanol	1 mL
9469.14-K-ME	Trimethoprim	738-70-5	1000 µg/mL	methanol	1 mL
9469.14-10MG	Trimethoprim	738-70-5	neat	neat	10 mg
9469.14-100MG	Trimethoprim	738-70-5	neat	neat	100 mg
13341.14-100-DS	Trimethoprim-d9	1189460-62-5	100 µg/mL	DMSO	1 mL
13341.14-1MG	Trimethoprim-d9	1189460-62-5	neat	neat	1 mg
2169.6-200-ME	Aniline (Trimethoprim Imp. K)	62-53-3	200 µg/mL	methanol	1 mL
2169.6-200-MEx5	Aniline (Trimethoprim Imp. K)	62-53-3	200 µg/mL	methanol	1 mL x 5
2169.6-100MG	Aniline (Trimethoprim Imp. K)	62-53-3	neat	neat	100 mg
2169.6-1ML	Aniline (Trimethoprim Imp. K)	62-53-3	neat	neat	1 mL
10975.6-K-ME	Aniline-d5 (Trimethoprim Imp. K-d5)	4165-61-1	1000 µg/mL	methanol	1 mL
Tulathromycin					
12989.41-100-ME	Tulathromycin isomer mix	217500-96-4	100 µg/mL	methanol	1 mL
12989.41-500-ME	Tulathromycin isomer mix	217500-96-4	500 µg/mL	methanol	1 mL
12989.41-K-ME	Tulathromycin isomer mix	217500-96-4	1000 µg/mL	methanol	1 mL
12989.41-10MG	Tulathromycin isomer mix	217500-96-4	neat	neat	10 mg
Tylosin (Pharmasin)					
12985.46-100-ME	Tylosin isomer mix	1401-69-0	100 µg/mL	methanol	1 mL
12985.46-500-ME	Tylosin isomer mix	1401-69-0	500 µg/mL	methanol	1 mL
12985.46-K-ME	Tylosin isomer mix	1401-69-0	1000 µg/mL	methanol	1 mL

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Catalogue No.	Description (Abbreviation)	Cas No.	Concentration	Solvent	Volume
Tylosin (Pharmasin) (continued)					
12985.46-5MG	Tylosin isomer mix	1401-69-0	neat	neat	5 mg
11615.50-K-ME	Tylosin tartrate	74610-55-2	1000 base µg/mL	methanol	1 mL
11615.50-100MG	Tylosin tartrate	74610-55-2	neat	neat	100 mg
Valnemulin					
13223.31-100-ME	Valnemulin hydrochloride	133868-46-9	100 µg/mL	methanol	1 mL
13223.31-500-ME	Valnemulin hydrochloride	133868-46-9	500 µg/mL	methanol	1 mL
13223.31-K-ME	Valnemulin hydrochloride	133868-46-9	1000 µg/mL	methanol	1 mL
13223.31-5MG	Valnemulin hydrochloride	133868-46-9	neat	neat	5 mg
Virginiamycin					
13016.28-100-ME	Virginiamycin complex (Mixture of M1 and S1)	11006-76-1	100 µg/mL	methanol	1 mL
13016.28-100-DSx1	Virginiamycin complex (Mixture of M1 and S1)	11006-76-1	100 µg/mL	DMSO	1 mL
13016.28-10MG	Virginiamycin complex (Mixture of M1 and S1)	11006-76-1	neat	neat	10 mg

BMF 92 - Antibiotics

Chiron offers a wide range of single standards vs mixes for antibiotic monitoring:

Catalogue No.	Mix No.	Description (Abbreviation)	Concentration	No. Components	Solvent	Volume
S-5013-10K-MEx10	Anti-infectious Mix 1	Anti-infectious drugs Mix of 7 compounds 7 Compounds at 10 mg/mL (free base) in methanol 1 x 10 mL in a screwcap bottle 10824.16 Cefotaxime sodium salt [64485-93-4] 10827.17 Meropenem trihydrate [119478-56-7] 10823.10 Piperacillin sodium salt [59703-84-3] 8570.17 Ciprofloxacin [85721-33-1] 12766.9 Ganciclovir dydrate [82410-32-0 as anhydrous form] 9469.14 Trimethoprim [738-70-5] 9503.10 Sulfamethoxazole [723-46-6]	10 000 µg/mL	7	methanol	10 mL
S-5031-100-ME S-5031-100-MEx10	Anti-infectious Mix 2	EPA 1694, Group 2 (Mix B) Antibiotics Mix of 4 cycline compounds 4 Compounds at 100 µg/mL (free base) in methanol 1 or 10 x 1 mL ampoules 10652.22 Oxytetracycline [79-57-2] 10858.22 Tetracycline hydrochloride [64-75-5] 10847.22 Chlortetracycline hydrochloride [64-72-2] 12970.22 Doxycycline [564-25-0]	1000 µg/mL	methanol	1 mL	1 mL
S-5032-100-ME S-5032-100-MEx10	Anti-infectious Mix 3	Antibiotics Mix of 14 sulfa compounds 14 Compounds at 100 µg/mL in methanol 1 or 10 x 1 mL ampoules 12971.12 Sulfadoxine [2447-57-6] 12070.12 Sulfadimethoxine [122-11-2] 10893.10 Sulfadiazine [68-35-9] 12068.11 Sulfamerazine [127-79-7] 12069.12 Sulfamethazine [57-68-1] 9503.10 Sulfamethoxazole [723-46-6] 12972.11 Sulfamethoxypridazine [80-35-3] 12973.11 Sulfamonomethoxine [1220-83-3] 12974.14 Sulfaquinoxaline [59-40-5] 12975.10 Sulfachlorpyridazine [80-32-0] 11425.9 Sulphathiazole [72-14-0] 12976.15 Sulfaphenazole [526-08-9] 12977.11 Sulfisoxazole [127-69-5] 12978.7 Sulfaguanidin [57-67-0]	100 µg/mL	14	methanol	1 mL
S-5033-100-ME S-5033-100-MEx10	Anti-infectious Mix 4	Antibiotics Mix of 11 floxacin compounds 11 Compounds at 100 µg/mL (free base) in methanol 10 x 1 mL ampoules 12073.12 Nalidixic acid [389-08-2] 11422.16 Norfloxacin [70458-96-7] 12981.10 Danofloxacin [112398-08-0] 12075.21 Difloxacin hydrochloride [98106-17-3] 12076.14 Marbofloxacin [115550-35-1] 12983.20 Sarafloxacin [98105-99-8] 8570.17 Ciprofloxacin [85721-33-1] 11614.19 Enrofloxacin [93106-60-6] 12984.19 Orbifloxacin [113617-63-3] 12122.18 Ofloxacin [82419-36-1] 12510.17 Perfloxacin [70458-92-3]	100 µg/mL	11	methanol	1 mL

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Catalogue No.	Mix No.	Description (Abbreviation)	Concentration	No. Components	Solvent	Volume
S-5034-100-ME S-5034-100-MEx10	Anti-infectious Mix 5	Antibiotics Mix of 9 mycin etc. compounds 9 Compounds at 100 µg/mL in methanol 1 or 10 x 1 mL ampoules 12985.46 Tylosin isomer mix [1401-69-0] 10090.37 Erythromycin [114-07-8] 12986.27 Kitasamycin, mixture of isomers A0-A9 (Leucomycin) [1392-21-8] 12071.43 Spiramycin [8025-81-8] 12987.42 Josamycin [16846-24-5] 12988.35 Oleandomycin [3922-90-5] 12072.46 Tilmicosin [108050-54-0] 12989.41 Tulathromycin isomer mix [217500-96-4] 12990.28 Tiamulin [55297-95-5]	100 µg/mL	9	methanol	1 mL
S-5035-100-ME S-5035-100-MEx10	Anti-infectious Mix 6	Antibiotics Mix of 4 carbazide compounds 4 Compounds at 100 µg/mL (free base) in methanol 1 or 10 x 1 mL ampoules 12078.1 Semicarbazide hydrochloride (SEM HCl) [563-41-7] 12992.3 AOZ [80-65-9] 12993.8 AMOZ [43056-63-9] 12994.3 1-Aminohydantoin [6301-02-6]	100 µg/mL	4	methanol	1 mL
100 µg/mL4 methanol 1 mL	Anti-infectious Mix 7	Antibiotics Mix of 7 "cef" compounds 7 Compounds at 100 µg/mL in DMSO 1 or 10 x 1 mL ampoules 12995.17 Cephapirin [21593-23-7] 12996.23 Cefquinome [84957-30-2] 12997.16 Cephalexin hydrate [15686-71-2] 12401.20 Cefalonium dihydrate [1385046-35-4] 12398.14 Cefazolin [25953-19-9] 12399.16 Cefuroxime [55268-75-2] 12396.19 Ceftiofur [80370-57-6]	100 µg/mL	7	DMSO	1 mL
S-5037-100-ME S-5037-100-MEx10	Anti-infectious Mix 8	Antibiotics Mix of 3 phenicol compounds 3 Compounds at 100 µg/mL in methanol 1 or 10 x 1 mL ampoules 10649.11 Chloramphenicol [56-75-7] 12998.12 Florfenicol [73231-34-2] 12999.12 Thiamphenicol [15318-45-3]	100 µg/mL	3	methanol	1 mL
S-5038-100-ME S-5038-100-MEx10	Anti-infectious Mix 9	Antibiotics Mix of 8 bendazole compounds 8 Compounds at 100 µg/mL in methanol 1 or 10 x 1 mL ampoules 11624.12 Albendazole [54965-21-8] 3513.10 Thiabendazole [148-79-8] 13000.16 Flubendazole [31430-15-6] 13001.20 Febantel [58306-30-2] 12504.15 Fenbendazole [43210-67-9] 13002.15 Oxfendazole [53716-50-0] 13003.12 Oxybendazole [20559-55-1] 13004.16 Mebendazole [31431-39-7]	100 µg/mL	8	methanol	1 mL
S-5039-100-MEx1 S-5039-100-MEx5 S-5039-100-MEx10	Anti-infectious Mix 10	Antibiotics Mix of 4 "-ectin" compounds 4 Compounds at 100 µg/mL in methanol 1, 5 or 10 x 1 mL ampoules 11510.48 Ivermectin [70288-86-7] 13005.48 Abamectin isomer mix [71751-41-2] 13006.50 Doramectin [117704-25-3] 13007.37 Moxidectin [113507-06-5]	100 µg/mL	4	methanol	1 mL

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Catalogue No.	Mix No.	Description (Abbreviation)	Concentration	No. Components	Solvent	Volume
S-5071-100-ME S-5071-100-MEx5 S-5071-100-MEx10 S-5071-100-MEx20 S-5071-100-MEx30 S-5071-100-MEx40 S-5071-100-MEx50	Anti-infectious Mix 11	Antibiotics Mix of 17 compounds 17 Compounds at 100 µg/mL in methanol 1, 5, 10, 20, 30, 40 or 50 x 1 mL ampoules 12978.7 Sulfaguanidin [57-67-0] 12971.12 Sulfadoxine [2447-57-6] 12070.12 Sulfadimethoxine [122-11-2] 10893.10 Sulfadiazine [68-35-9] 12068.11 Sulfamerazine [127-79-7] 12069.12 Sulfamethazine [57-68-1] 9503.10 Sulfamethoxazole [723-46-6] 12972.11 Sulfamethoxyipyridazine [80-35-3] 12973.11 Sulfamonomethoxine [1220-83-3] 12974.14 Sulfaquinoxaline [59-40-5] 12975.10 Sulfachloropyridazine [80-32-0] 13170.10 Sulfaclozine [102-65-8] 11425.9 Sulfathiazole [72-14-0] 12976.15 Sulfapenazole [526-08-9] 12977.11 Sulfisoxazole [127-69-5] 13220.17 Phthalsulfathiazole [85-73-4] 13222.12 Sulfaethoxyipyridazine [963-14-4]	100 µg/mL	17	methanol	1 mL
S-5072-100-DS S-5072-100-DSx5 S-5072-100-DSx10 S-5072-100-DSx20 S-5072-100-DSx30 S-5072-100-DSx40 S-5072-100-DSx50	Anti-infectious Mix 12	Antibiotics Mix of 9 compounds 9 Compounds at 100 µg/mL in dichloromethane 1, 5, 10, 20, 30, 40 or 50 x 1 mL certain bottles 12398.14 Cefazolin [25953-19-9] 12995.17 Cephapirin [21593-23-7] 13171.15 Desacetyl cephalirin (sodium salt) [104557-24-6] 12401.20 Cefalonium (dihydrate) [1385046-35-4] 12997.16 Cephalixin hydrate [15686-71-2] 13163.25 Cefoperazone [62893-19-0] 12996.23 Cefquinome [84957-30-2] 12396.19 Ceftiofur [80370-57-6] 13194.14 Desfuroyl Ceftiofur (>90%) [120882-22-6]	100 µg/mL	9	dichloro- methane	1 mL
S-5073-100-ME S-5073-100-MEx5 S-5073-100-MEx10 S-5073-100-MEx20 S-5073-100-MEx30 S-5073-100-MEx40 S-5073-100-MEx50	Anti-infectious Mix 13	Antibiotics Mix of 13 compounds 13 Compounds at 100 µg/mL (free base) in methanol 1, 5, 10, 20, 30, 40 or 50 x 1 mL ampoules 12073.12 Nalidixic acid [389-08-2] 11422.16 Norfloxacin [70458-96-7] 12981.10 Danofloxacin [112398-08-0] 12075.21 Difloxacin hydrochloride [91296-86-5] 8570.17 Ciprofloxacin [85721-33-1] 12983.20 Sarafloxacin [98105-99-8] 12076.17 Marbofloxacin [115550-35-1] 11614.19 Enrofloxacin [93106-60-6] 12984.19 Orbifloxacin [113617-63-3] 12122.18 Ofloxacin [82419-36-1] 12067.13 Oxolinic acid [14698-29-4] 12510.17 Pefloxacin [70458-92-3] 12074.14 Flumequine [42835-25-6]	100 µg/mL	13	methanol	1 mL
S-5074-100-ME S-5074-100-MEx5 S-5074-100-MEx10 S-5074-100-MEx20 S-5074-100-MEx30 S-5074-100-MEx40 S-5074-100-MEx50	Anti-infectious Mix 14	Antibiotics Mix of 7 compounds 7 Compounds at 100 µg/mL in methanol 1, 5, 10, 20, 30, 40 or 50 x 1 mL ampoules 12405.21 Nafcillin sodium hydrate [7177-50-6] 10828.16 Penicillin G potassium salt [113-98-4] 12407.19 Dicloxacillin sodium hydrate [13412-64-1] 12495.16 Amoxicillin trihydrate [61336-70-7] 12634.16 Ampicillin [69-53-4] 12166.19 Oxacillin sodium salt monohydrate [7240-38-2] 12406.19 Cloxacillin sodium hydrate [7081-44-9]	100 µg/mL	7	methanol	1 mL

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Catalogue No.	Mix No.	Description (Abbreviation)	Concentration	No. Components	Solvent	Volume
S-5075-100-AN S-5075-100-ANx5 S-5075-100-ANx10 S-5075-100-ANx20 S-5075-100-ANx30 S-5075-100-ANx40 S-5075-100-ANx50	Anti-infectious Mix 15	Antibiotics Mix of 4 compounds 4 Compounds at 100 µg/mL (free base) in acetonitrile 1, 5, 10, 20, 30, 40 or 50 x 1 mL ampoules 12998.12 Florfenicol [73231-34-2] 13164.10 Florfenicol amine hydrochloride [108656-33-3] 12999.12 Thiamphenicol [15318-45-3] 10649.11 (R,R)-Chloramphenicol [56-75-7]	100 µg/mL	4	acetonitrile	1 mL
S-5076-100-ME S-5076-100-MEx5 S-5076-100-MEx10 S-5076-100-MEx20 S-5076-100-MEx30 S-5076-100-MEx40 S-5076-100-MEx50	Anti-infectious Mix 16	Antibiotics Mix of 8 compounds 8 Compounds at 100 µg/mL (free base) in methanol 1, 5, 10, 20, 30, 40 or 50 x 1 mL ampoules 12501.41 Roxithromycin [80214-83-1] 13092.14 Spectinomycin dihydrochloride pentahydrate [22189-32-8] 10090.37 Erythromycin [114-07-8] 12988.35 Oleandomycin [3922-90-5] 12987.42 Josamycin [16846-24-5] 12985.46 Tylosin isomer mix [1401-69-0] 12072.46 Tilmicosin [108050-54-0] 12989.41 Tulathromycin isomer mix [217500-96-4]	100 µg/mL	8	methanol	1 mL
S-5077-100-ME S-5077-100-MEx5 S-5077-100-MEx10 S-5077-100-MEx20 S-5077-100-MEx30 S-5077-100-MEx40 S-5077-100-MEx50	Anti-infectious Mix 17	Antibiotics Mix of 31 compounds 31 Compounds at 100 µg/mL (free base) in methanol 1, 5, 10, 20, 30, 40 or 50 x 1 mL ampoules 13015.31 Novobiocin [303-81-1] 8499.12 Dapsone [80-08-0] 13165.14 N-Acetyl dapsone [565-20-8] 13085.18 Ractopamine hydrochloride [90274-24-1] 13014.6 Ronidazole [7681-76-7] 13166.43 Rifaximin [80621-81-4] 12121.18 Lincomycin hydrochloride [859-18-7] 11903.6 Metronidazole [443-48-1] 13223.31 Valnemulin hydrochloride [101312-92-9] 12165.14 Ormethoprim [6981-18-6] 13013.12 Olaquinox [23696-28-8] 8471.11 Carbadox [6804-07-5] 10526.12 Clenbuterol hydrochloride [21898-19-1] 12116.18 Clindamycin hydrochloride [21462-39-5] 9469.14 Trimethoprim [738-70-5] 12990.28 Tiamulin [55297-95-5] 13167.41 Tildipirosin [328898-40-4] 2754.8 Acetanilide [103-84-4] 11322.10 Phenacetin [62-44-2] 13224.11 rac-Methylephedrine hydrochloride [18760-80-0] 9464.11 Antipyrine [60-80-0] 13225.10 N,N-Diethylcarbamazine [90-89-1] 13226.14 Acriflavine [8048-52-0] 13227.16 Tripelennamine hydrochloride [91-81-6] 10963.17 Diphenhydramine hydrochloride [147-24-0] 11417.14 Metoclopramide [364-62-5] 8906.17 (-)-Scopolamine hydrobromide trihydrate [114-49-8 (as anhydrous)] 9881.19 Naloxone hydrochloride [357-08-4] 13228.20 Berberine chloride hydrate [141433-60-5] 12454.21 Yohimbine hydrochloride [65-19-0] 13229.19 Praziquantel [55268-74-1]	100 µg/mL	31	methanol	1 mL

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Catalogue No.	Mix No.	Description (Abbreviation)	Concentration	No. Components	Solvent	Volume
S-5078-100-ME S-5078-100-MEx5 S-5078-100-MEx10 S-5078-100-MEx20 S-5078-100-MEx30 S-5078-100-MEx40 S-5078-100-MEx50	Anti-infectious Mix 18	Antibiotics Mix of 5 compounds 5 Compounds at 100 µg/mL in methanol 1, 5, 10, 20, 30, 40 or 50 x 1 mL ampoules 12508.43 Naracin sodium salt [58331-17-2] 12507.34 Lasalocid A sodium salt [25999-20-6] 12506.47 Maduramycin ammonium salt [84878-61-5] 12505.36 Monensin sodium salt, 90+ % [22373-78-0] 13326.42 Salinomycin sodium salt x-hydrate [55721-31-89] (as anhydrous)	100 µg conj. base/mL	5	methanol	1 mL
S-5095-100-MEx10	Anti-infectious Mix 19	EPA 1694, Group 1 (Mix B) Pharmaceutical Impurities in waste water 27 Compounds at 100 µg/mL (free base) in methanol 10 x 1 mL ampoules 11629.38 Azithromycin dihydrate [117772-70-0] 8766.38 Clarithromycin [81103-11-9] 10090.37 Erythromycin [114-07-8] 13330.37 Erythromycin A dihydrate [59319-72-1] 12985.46 Tylosin isomer mix [1401-69-0] 12121.18 Lincomycin hydrochloride [859-18-7] 12501.41 Roxithromycin [80214-83-1] 13016.28 Virginiamycin complex (Mixture of M1 and S1) [11006-76-1] 13332.23 Norgestimate [35189-28-7] 12165.14 Ormetoprim [6981-18-6] 12166.19 Oxacillin sodium salt monohydrate [7240-38-2] 12067.13 Oxolinic acid [14698-29-4] 12634.16 Ampicillin [69-53-4] 12406.19 Cloxacillin sodium hydrate [7081-44-9] 10828.16 Penicillin G potassium salt [113-98-4] 13333.16 Penicillin V [87-08-1] 12975.10 Sulfachlorpyridazine [80-32-0] 10893.10 Sulfadiazine [68-35-9] 12070.12 Sulfadimethoxine [122-11-2] 12068.11 Sulfamerazine [127-79-7] 12069.12 Sulfamethazine [57-68-1] 12163.18 Miconazole nitrate [22832-87-7] 13335.9 Sulfamethizole [144-82-1] 9503.10 Sulfamethoxazole [723-46-6] 3513.10 Thiabendazole [148-79-8] 13336.6 Sulfanilamide [63-74-1] 9469.14 Trimethoprim [738-70-5]	100 µg/mL	27	methanol	1 mL
S-5096-100-MEx10	Anti-infectious Mix 20	EPA 1694, Group 2 (Mix A) Pharmaceutical Impurities in waste water 9 Compounds at 100 µg/mL (free base) in methanol 10 x 1 mL ampoules 13343.22 Anhydrochlortetracycline hydrochloride [65490-24-6] 13344.22 Anhydrotetracycline hydrochloride [13803-65-1] 13347.21 Demeclocycline hydrochloride [64-73-3] 13378.22 4-Epianhydrochlortetracycline Hydrochloride [158018-53-2] 13327.22 4-Epianhydrotetracycline hydrochloride [4465-65-0] 12606.22 4-Epioxytetracycline [14206-58-7] 13329.22 4-Epitetracycline hydrochloride [23313-80-6] 13331.22 Isochlortetracycline [514-53-4] 12164.23 Minocycline hydrochloride [13614-98-7]	100 µg/mL	9	methanol	1 mL



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