

TABLE FOR STABILITIES OF ANTIMICROBIALS IN STOCK STANDARD SOLUTIONS

Version 01
as of 15.10.2021

EU-RL for
Antibiotic VMP Residues

Family of compounds	Compound	Salt	Results of stability stock solution studies	Solvent of dilution	Temperature of storage
Aminoglycosides	Apramycin	Sulfate	6 months	Water	+4°C
	Paromomycin	Sulfate	9 months	Water	+4°C
	Gentamicin C1, C1a, C2	/	9 months	Water	+4°C
	Neomycin B	Sulfate	14 months	Water	+4°C
	Spectinomycin	dihydrochloride pentahydrate	14 months	50%water/50%methanol	-20°C
	Streptomycin	sulfate	14 months	50%water/50%methanol	-20°C
	Dihydrostreptomycin	sesquisulfate	10 months	50%water/50%methanol	-20°C
	Kanamycin A	sulfate	14 months	50%water/50%methanol	-20°C
Penicillins	Amoxicillin	Trihydrate	1 year	50%water/50%methanol	-20°C
	Ampicillin	Sodium	1 year	75%water/25%acetonitrile	+4°C
	Penicillin-G	Sodium	7 months	50%water/50%methanol	-20°C
	Penicillin-V	Potassium	1 year	75%water/25%acetonitrile	+4°C
	Oxacillin	Sodium hydrate	1 year	50%water/50%methanol	-20°C
	Cloxacillin	Sodium	1 year	50%water/50%methanol	-20°C
	Nafcillin	Sodium	2 months	50%water/50%methanol	-20°C
	Dicloxacillin	Sodium	6 months	75%water/25%acetonitrile	+4°C
Penicillins - NEW	Sulbactam	/	ND	1 mL water + methanol (total volume of 20 mL)	-20°C
	Ticarcillin	Di-sodium	ND	1 mL water + methanol (total volume of 20 mL)	-20°C
Cephalosporins	Cephapirin	Sodium	1 year	50%water/50%methanol	-20°C
	Desacetylcephapirin DAC	Sodium	1 month	75%water/25%acetonitrile	+4°C
	Cefquinome	Sulfate	2 months	75%water/25%acetonitrile	+4°C
	Cefalonium	Hydrate	1 month	75%water/25%acetonitrile	+4°C
	Cefazolin	Sodium	1 year	50%water/50%methanol	-20°C
	Cefalexin	Hydrate	1 year	50%water/50%methanol	-20°C
	Ceftiofur	Hydrochloride	1 year	75%water/25%acetonitrile	+4°C
	Desfuroylceftiofur Cysteine disulfide DCCD	/	9 months	50%water/50%methanol	-20°C
	Cefoperazon	Sodium	7 months	50%water/50%methanol	-20°C
	Cephradine	/	ND	Methanol	-20°C
	Cefacetrile	Sodium	6 months	50%water/50%methanol	-20°C
	Cefuroxim	Sodium	3 months	50%water/50%methanol	-20°C
Cephalosporins - NEW	Ceftriaxone	Sodium	ND	1 mL water + methanol (total volume of 20 mL)	-20°C

TABLE FOR STABILITIES OF ANTIMICROBIALS IN STOCK STANDARD SOLUTIONS

Version 01
as of 15.10.2021

EU-RL for
Antibiotic VMP Residues

Tetracyclines	Oxytetracycline	Hydrochloride	6 months	Methanol	-20°C
	Tetracycline	Hydrochloride	6 months	Methanol	-20°C
	Chlortetracycline	Hydrochloride	6 months	Methanol	-20°C
	Demeclocycline	Hydrochloride	ND	Methanol	-20°C
	4-Epi Oxytetracycline	/	6 months	Methanol	-20°C
	4-Epi Tetracycline	Hydrochloride	6 months	Methanol	-20°C
	4-Epi Chlortetracycline	Hydrochloride	6 months	Methanol	-20°C
	Doxycycline	Hyclate	6 months	Methanol	-20°C
Sulfonamides	Sulfaguanidin	/	1 year	Methanol	-20°C
	Sulfadiazin	Sodium	1 year	Methanol	-20°C
	Sulfathiazol	/	1 year	Methanol	-20°C
	Sulfadimerazin Sulfadimidin Sulfamethazin	/	1 year	Methanol	-20°C
	Sulfamethoxypridazin	/	1 year	Methanol	-20°C
	Sulfamonomethoxin	/	1 year	Methanol	-20°C
	Sulfadoxin	/	1 year	Methanol	-20°C
	Sulfaquinoxalin	Sodium	1 year	Methanol	-20°C
	Sulfadimethoxin	/	1 year	Methanol	-20°C
	Sulfanilamide	/	1 year	Methanol	-20°C
	Sulfacetamide	/	1 year	Methanol	-20°C
	Dapson	/	2 years	Methanol	-20°C
	Sulfamethoxazol	/	1 year	Methanol	-20°C
	Sulfamerazin	/	1 year	Methanol	-20°C
	Sulfamethizol	/	1 year	Methanol	-20°C
	Sulfaphenazol	/	1 year	Methanol	-20°C
	Sulfachloropyridazin	/	1 year	Methanol	-20°C
	Sulfaclozin	Sodium	1 year	Methanol	-20°C
Sulfonamides - NEW	Phthalylsulfathiazole	/	ND	1 mL DMSO + methanol (total volume of 20 mL)	-20°C
	Sulfisoxazole	/	ND	1 mL acetone + methanol (total volume of 20 mL)	-20°C
Polypeptidic antibiotics	Colistin	Sulfate	6 months	50%formic acid 0,2%/50%methanol	-20°C
	Fusidic acid	/	ND	Methanol	-20°C
	Daptomycin	/	ND	DMSO	ambient temperature
	Polymyxin B	Sulfate	1 year	50%formic acid 0,2%/50%methanol	-20°C
	Bacitracin	/	8 months	50%water/50%methanol	+4°C

TABLE FOR STABILITIES OF ANTIMICROBIALS IN STOCK STANDARD SOLUTIONS

Version 01
as of 15.10.2021

EU-RL for
Antibiotic VMP Residues

Macrolides	Tulathromycin	/	1 year	Methanol	-20°C
	Tulathromycin marker	/	6 months	Methanol	-20°C
	Neospiramycin	/	6 months	Methanol	-20°C
	Spiramycin	/	1 year	Methanol	-20°C
	Tilmicosin	/	1 year	Methanol	-20°C
	Erythromycin	/	3 months	Methanol	-20°C
	Tylosine	Tartrate	3 months	Methanol	-20°C
	Tylvalosin	Tartrate	2 months	Methanol	-20°C
	O-acetyltylosin	/	1 year	Methanol	-20°C
	Josamycin	/	2 months	Methanol	-20°C
	Tildipirosin	/	2 years	Methanol	-20°C
	Desmycosin	/	6 months	Methanol	-20°C
	Gamithromycin	/	5 months	Methanol	-20°C
	Pirlmycin	Hydrochloride	5 months	Methanol	-20°C
Virginiamycin M1	/	3 months	Methanol	<-60°C	
Macrolides - NEW	Clarithromycin	/	ND	1 mL acetone + methanol (total volume of 20 mL)	-20°C
	Roxithromycin	/	ND	Methanol	-20°C
	Telithromycin	/	ND	Methanol	-20°C
	Oleandomycin	/	ND	Methanol	-20°C
	Magnamycin A	/	ND	1 mL acetone + methanol (total volume of 20 mL)	-20°C
	Kitasamycin	/	ND	Methanol	-20°C

TABLE FOR STABILITIES OF ANTIMICROBIALS IN STOCK STANDARD SOLUTIONS

Version 01
as of 15.10.2021

(Fluoro-)Quinolones	Marbofloxacin	/	1 year	Methanol + 1mL NaOH 1N (total volume of 20 mL)	-20°C
	Norfloxacin	/	6 months	Methanol + 1mL NaOH 1N (total volume of 20 mL)	-20°C
	Ciprofloxacin	/	1 year	Methanol + 1mL NaOH 1N (total volume of 20 mL)	-20°C
	Danofloxacin	/	3 months	Methanol + 1mL NaOH 1N (total volume of 20 mL)	-20°C
	Enrofloxacin	/	1 year	Methanol + 1mL NaOH 1N (total volume of 20 mL)	-20°C
	Sarafloxacin	Hydrochloride	1 year	Methanol + 1mL NaOH 1N (total volume of 20 mL)	-20°C
	Difloxacin	Hydrochloride	6 months	Methanol + 1mL NaOH 1N (total volume of 20 mL)	-20°C
	Oxolinic acid	/	6 months	Methanol + 1mL NaOH 1N (total volume of 20 mL)	-20°C
	Nalidixic acid	/	6 months	Methanol + 1mL NaOH 1N (total volume of 20 mL)	-20°C
	Flumequin	/	6 months	Methanol + 1mL NaOH 1N (total volume of 20 mL)	-20°C
(Fluoro-)Quinolones - NEW	Cinoxacin	/	ND	Methanol + 1mL NaOH 1N (total volume of 20 mL)	-20°C
	Fleroxacin	/	ND	Methanol + 1mL NaOH 1N (total volume of 20 mL)	-20°C
	Trovafloxacin	Mesylate	ND	Methanol + 1mL NaOH 1N (total volume of 20 mL)	-20°C
	Lomefloxacin	Hydrochloride	ND	Methanol + 1mL NaOH 1N (total volume of 20 mL)	-20°C
	Ofloxacin	/	17 months	Methanol + 1mL NaOH 1N (total volume of 20 mL)	-20°C
	Orbifloxacin	/	ND	Methanol + 1mL NaOH 1N (total volume of 20 mL)	-20°C

TABLE FOR STABILITIES OF ANTIMICROBIALS IN STOCK STANDARD SOLUTIONS

Version 01
as of 15.10.2021

EU-RL for
Antibiotic VMP Residues

Amphenicols	Florfenicol	/	2 years	Methanol	-20°C
	Florfenicol amin	/	2 years	Methanol	-20°C
	Thiamphenicol	/	2 years	Methanol	-20°C
Pleuromutilins	Tiamulin	Fumarate	7 months	Methanol	-20°C
	8 hydroxymutilin	/	2 years	Methanol	-20°C
	Valnemulin	Hydrochloride	3 months	Methanol	-20°C
Diamino-pyrimidic antibiotics	Ormetoprim	/	ND	Methanol	-20°C
	Baquiloprim	/	3 months	50%water/50%methanol	-20°C
	Trimethoprim	/	3 months	50%water/50%methanol	-20°C
Other antibiotics	Rifampicin	/	ND	1 mL DMSO + methanol (total volume of 20 mL)	-20°C
	Rifamycin	Sodium	ND	Ethanol	-20°C
	Rifaximin	/	ND	Methanol	-20°C
	Novobiocin	Sodium	3 months	Methanol	-20°C
	Avilamycin	/	ND	1 mL acetone + methanol (total volume of 20 mL)	-20°C
Lincosamides	Clindamycin	Hydrochloride	ND	Ethanol	-20°C
	Lincomycin	Hydrochloride	6 months	Methanol	-20°C