APPENDIX 11: ALLOWABLE MAXIMUM RESIDUAL LIMIT (MRL)

This is not an exhaustive list. MRL not in the list but available in MRL list of Codex alimentarius, EMA, Canada, USFDA, Japan NDA & Australia is allowed. Product containing ingredient not listed in MRL list from the countries mentioned will not be considered to be registered.

A) MAXIMUM PERMITTED PROPORTION OF DRUG RESIDUES IN FOOD

The food specified in column (2) of the Table below shall not contain the drug specified in column (1) thereof in proportions greater than the maximum permitted proportions specified opposite and in relation to that food in column (3) thereof.

Drug Substance Definition of residues in which MRL was set		Food	Maximum Residue Limits (MRLs) in food μg/kg	
Albendazole	2-Aminosulfone metabolite	Muscle, fat (cattle and other species), milk (cattle)	100	
		Liver, kidney (cattle and other species)	5000	
Amoxicillin	Amoxicillin	Milk (cattle)	4	
		Muscle, liver, kidney, fat (all food producing species)	50	
Ampicillin	Ampicillin	Milk (cattle)	4	
		Muscle, liver, kidney, fat (all food producing species)	50	
Amprolium	1-4 amino-2-n-propyl-5- (pyrimidinylmethyl)- 2-picolinium chloride	Muscle (chicken, turkey, pheasant and calf), liver (calf), kidney (calf)	500	
	hydrochloride	Liver (chicken, turkey and pheasant), kidney (chicken and turkey)	1000	
		Fat (calf)	2000	
		Egg (chicken and turkey)	4000	
Azaperone	Sum of azaperone	Muscle, fat (pig)	60	
	and azaperol	Liver, kidney (pig)	100	
Benzylpenicillin	Benzylpenicillin	Milk (cattle)	4	
, i		Liver, kidney, muscle (cattle and pig)	50	
Carazolol	Carazolol	Muscle, fat (pig)	5	
		Liver, kidney (pig)	25	
Carprofen	Carprofen	Muscle (horse)	50	
		Fat (horse)	100	
		Muscle, fat (cattle)	500	
		Liver, kidney (cattle and horse)	1000	

Substance	Drug Definition of residues in which MRL was set	Food	Maximum Residue Limits (MRLs) in food μg/kg
Cefquinome	Cefquinome	Milk (cattle)	20
		Muscle, fat (cattle)	50
		Liver (cattle)	100
		Kidney (cattle)	200
Ceftiofur sodium	Desfuroylceftiofur	Milk (cattle)	100
		Muscle (pig and cattle)	200
		Fat (pig and cattle)	600
		Liver (pig and cattle)	2000
		Kidney (pig and cattle)	4000
Clorsulon	Clorsulon	Muscle (cattle)	100
		Liver (cattle)	200
		Kidney (cattle)	300
		Fat (cattle)	400
Closantel	Closantel	Muscle, liver (cattle)	1000
		Muscle, liver (sheep)	1500
		Fat (sheep)	2000
		Kidney, fat (cattle)	3000
		Kidney (sheep)	5000
Cloxacillin	Cloxacillin	Milk (cattle)	30
		Muscle, liver, kidney, fat (all food producing species)	300
Colistin	Colistin	Milk (cattle)	50
		Muscle, liver, fat (cattle, chicken, pig, rabbit and sheep)	150
		Kidney (cattle, chicken, pig, rabbit and sheep)	200
		Egg (chicken)	300
Danofloxacin	Danofloxacin	Fat (cattle)	200
		Muscle (cattle and chicken)	300
		Kidney (cattle)	500
		Fat (chicken)	600
		Liver (cattle)	900
		Liver, kidney (chicken)	1200
Decoquinate	Decoquinate	Muscle, liver, kidney, fat (cattle and sheep)	500
Dexamethasone	Dexamethasone	Milk (cattle)	0.3
		Muscle, kidney (cattle, horse and pig)	0.5
		Liver (cattle and pig)	2.5

Drug Substance Definition of residues which MRL was set		Food	Maximum Residue Limits (MRLs) in food μg/kg	
Dicloxacillin	Dicloxacillin	Milk (cattle)	30	
		Muscle, liver, kidney, fat (all food producing species)	300	
Dihydrostreptomycin	Dihydrostreptomycin	Milk (cattle)	200	
		Muscle, liver, fat (cattle, chicken, pig and sheep)	500	
		Kidney (cattle, chicken, pig and sheep)	1000	
Diminazene	Diminazene	Milk (cattle)	150	
		Muscle ('cattle)	500	
		Kidney (cattle)	6000	
		Liver (cattle)	12000	
Doramectin	Doramectin	Muscle (cattle)	10	
		Kidney (cattle)	30	
		Liver (cattle)	100	
		Fat (cattle)	150	
Doxycycline	Doxycycline	Muscle (cattle, pig and poultry)	100	
		Liver (cattle, pig and poultry), fat (pig and poultry)	300	
		Kidney (cattle, pig and poultry)	600	
Enrofloxacin	Sum of enrofloxacin and ciprofloxacin	Muscle, liver, kidney (cattle, chicken and pig)	30	
Erythromycin	Erythromycin	Milk (mammalian)	40	
		Edible offal, muscle, egg (mammalian and poultry)	300	
Estradiol-l7β	Estradiol-17β	Food of bovine origin	GAHP*	
Ethopabate	Ethopabate	Muscle (chicken)	500	
		Liver, kidney (chicken)	1500	
Febantel	Sum of febandazole, oxfendazole and oxfendazole sulfone	Milk (cattle) muscle, kidney, fat (cattle, pig and sheep)	100	
		Liver (cattle, pig and sheep)	500	
Fenbendazole	Sum of febandazole, oxfendazole and oxfendazole sulfone	Milk (cattle), muscle, kidney, fat (cattle, pig and sheep)	100	
	DAIGHUAZOIC SUHOHE	Liver (cattle, pig and sheep)	500	
Florfenicol	Sum of florfenicol	Muscle (cattle)	200	
	and its metabolites	Kidney (cattle)	300	

Drug **Maximum Residue** Definition of residues in **Substance Food** Limits (MRLs) in which MRL was set food µg/kg Liver (cattle) 3000 measured as florfenicol-amine Flubendazole Muscle, liver (pig) 10 Flubendazole Fat (pig) 20 Fat (cattle) 40 100 Liver (cattle) Muscle (poultry) 200 400 Egg (poultry) Liver (poultry) 500 Muscle, fat (cattle, pig, 50 Flumequine Flumequine poultry and sheep) Liver (cattle, pig, poultry 100 and sheep) Kidney (cattle, pig, 300 poultry and sheep) Flumethrin Edible offal, muscle and 50 Flumethrin milk (cattle) Milk (cattle), muscle, fat 100 Gentamicin Gentamicin (cattle and pig) Liver (cattle and pig) 200 Kidney (cattle and pig) 1000 100 Isometamidium Isometamidium Muscle, fat, milk (cattle) Liver (cattle) 500 1000 Kidney (cattle) 22, 23 Liver (pig and sheep) 15 **Ivermectin** Dihydroavermectin Fat (pig and sheep) 20 B1a Fat (cattle) 40 Liver (cattle) 100 Muscle, kidney ,fat (cattle, 10 Levamisole _evamisole pig, poultry and sheep) Liver (poultry) 100 100 Lincomycin Lincomycin Edible tissue (pig) Maduramicin Maduramicin Edible tissue, muscle, 240 (chicken) Fat (chicken) 480 Liver (chicken) 720 Muscle (deer), liver 20 Moxidectin Moxidectin (cattle) Liver (sheep), kidney 50 (deer), fat (cattle and sheep)

Substance	Drug Definition of residues in which MRL was set	Food	Maximum Residue Limits (MRLs) in food μg/kg	
		Liver (deer), kidney (cattle and sheep)	100	
		Fat (deer), milk (cattle and sheep)	500	
Neomycin	Neomycin	Muscle, liver, fat (chicken, turkey, duck, cattle, goat, sheep and pig), egg (chicken), milk (cattle)	500	
		Kidney (chicken, turkey, duck, cattle, goat, sheep and pig)	1000	
Nicarbazin	Nicarbazin	Muscle, liver, kidney (chicken)	4000	
Nystatin	Nystatin	Edible tissue (pig and poultry), egg (poultry)	0	
Oxacillin	Oxacillin	Milk (all food producing species)	30	
		Muscle, liver, kidney, fat (all food producing Species)	300	
Oxfendazole	Sum of fenbendazole, oxfendazole and oxfendazole sulfone	Muscle, kidney, fat (cattle, pig and sheep), milk (cattle)	100	
		Liver (cattle, pig and sheep)	500	
Oxibendazole	Oxibendazole	Milk (cattle and sheep)	50	
		Muscle, liver, kidney, fat (cattle, horse, pig and sheep)	100	
Oxytetracycline	Oxytetracyline	Fat (cattle, sheep, pig, chicken and turkey)	10	
		Milk (cattle), muscle (cattle, sheep, pig, chicken and turkey)	100	
		Egg (chicken)	200	
		Liver (cattle, sheep, pig, chicken and turkey)	300	
		Kidney (cattle, sheep, pig, chicken and turkey)	600	
Penicillin	Penicillin	Edible tissue (chicken, quail, pig and sheep), egg (chicken and quail), milk (cattle)	0	
		Edible tissue (turkey)	10	
		Edible tissue (cattle)	50	

Substance	Drug Definition of residues in which MRL was set	Food	Maximum Residue Limits (MRLs) in food μg/kg	
Phoxim	Phoxim	Edible offal, muscle (pig)	10	
		Fat (pig)	50	
Progesterone	Progesterone	Food of bovine origin	GAHP*	
Ractopamine	Ractopamine	Muscle (pig)	10	
		Fat (pig)	10	
		Liver (pig)	40	
		Kidney (pig)	90	
Robenidine	Robenidine	Edible tissue (poultry)	100	
hydrochloride	Hydrochloride	Fat (poultry)	200	
Salinomycin	Salinomycin	Egg (poultry)	20	
		Muscle (cattle)	50	
		Edible offal (pig), muscle (pig and poultry)	100	
		Edible offal (cattle and poultry)	500	
Sarafloxacin	Sarafloxacin	Fat (chicken)	10	
		Liver (chicken)	100	
Spectinomycin	Spectinomycin	Milk (cattle)	200	
		Muscle (cattle, chicken and pig)	300	
		Fat (cattle, chicken and pig)	500	
		Liver (cattle, chicken and pig)	2000	
		Kidney (cattle, chicken and pig)	5000	
Spiramycin	Expressed as	Muscle (pig)	200	
	spiramycin	Kidney, fat (pig)	300	
	equivalents antimicrobially active	Liver (pig)	600	
	residues Sum of spiramycin and neospiramycin	Muscle (cattle and chicken), milk (cattle)	200	
	and neceptianly em	Kidney (cattle), fat (cattle and chicken)	300	
		Liver (cattle and chicken)	600	
		Kidney (chicken)	800	
Streptomycin	Streptomycin	Milk (cattle)	200	
		Muscle, liver, fat (cattle, chicken, pig and sheep)	500	
		Kidney (cattle, chicken, pig and sheep)	1000	

Drug **Maximum Residue** Definition of residues in **Substance** Food Limits (MRLs) in which MRL was set food µg/kg Edible offal (mammalian), 100 Sulphadiazine Sulphadiazine muscle (mammalian). milk (cattle) Milk (cattle) 10 Sulphadimethoxine Suiphadimethoxine Edible offal, muscle 100 (cattle and chicken) Sulphadimidine Sulphadimidine Milk (cattle) 25 Edible offal (chicken and 100 mammalian), muscle (chicken and mammalian), liver, kidney, fat (cattle) Edible tissue (cattle, 100 Suiphamethazine Sulphamethazine turkey, chicken and pig) Edible offal, muscle 100 Sulphaquinoxaline Sulphaquinoxaline (poultry) Muscle, liver, kidney, fat 100 Sulphonamide Sulphonamide (all food producing species), milk (cattle) Food of bovine origin Testoterone Testoterone GAHP* Muscle (cattle, poultry, 100 Tetracycline Sum of parent drug pig and sheep), milk and its 4-epimer (cattle) 200 Egg (poultry) Liver (cattle, poultry, pig 300 and sheep) Kidney (cattle, poultry, 600 pig and sheep) Thiabendazole Sum of thiabendazole Muscle, liver, kidney and 100 fat (cattle, pig, goat and and 5-hydroxysheep), milk (cattle and thiabendazole goat) Muscle (pig) 3600 Tiamulin 8-alphahydroxymutilin Liver (pig) 10800 Kidney, fat (pig) 14400 Tilmicosin Milk (sheep) 50 Tilmicosin Muscle, fat (cattle, poultry, 100 pig and sheep) Kidney (cattle and sheep) 300 1000 Liver (cattle and sheep), Kidney (pig) 1000 1500 Liver (pig) 2 β-Trenbolone Muscle (cattle) Trenbolone acetate . ά-Trenbolone Liver (cattle) 10

Drug Substance Definition of residues in which MRL was set		Food	Maximum Residue Limits (MRLs) in food µg/kg	
Triclabendazole	5-chloro-6-(2',3'- dichloro-phenoxy) benzimidazole-2-one	Fat (cattle and sheep)	100	
Trimethoprim	Trimethoprim	Edible offal, muscle (mammalian and chicken), egg (chicken), milk (cattle)	50	
Tylosin	Tylosin	Milk (cattle)	50	
		Muscle, liver, kidney (chicken and cattle), edible tissue (cattle), fat (chicken), egg (chicken)	200	
Virginiamycin	Virginiamycin	Muscle, liver, kidney, fat (cattle)	0	
		Muscle (pig and poultry)	100	
		Fat (poultry)	200	
		Liver (pig and poultry)	300	
		Kidney, fat (pig)	400	
		Kidney (poultry)	500	
Zeranol	Zeranol	Muscle (cattle)	2	
		Liver (cattle)	10	

^{*} Good animal husbandry practice

Reference: Adopted list from Fifteenth A Schedule, [Regulation 40], Food Act 1985

B) MAXIMUM PERMITTED PROPORTION OF DRUG RESIDUES IN AQUACULTURE AND ALLOWABLE WITHDRAWAL PERIOD

BIL		PHARMACOLOGICALLY ACTIVE SUBSTANCES			MRLs μg/kg (ppb)	WITH DRAWAL PERIOD
1	Anti-infectious agents	Antibiotics	Sulfonamides	Sulfonamide	100	30 days
2			Diamino pyrimidine derivatives	Trimethoprim	50	30 days
3			Penicillin	Amoxicyllin	50	30 days
4				Ampicillin	50	30 days
5				Benzylpenicillin	50	30 days
6				Cloxacillin	300	30 days
7				Dicloxacillin	300	30 days
8				Oxacillin	300	30 days
9			Quinolones	Danofloxacin	100	30 days
10				Difloxacin	300	30 days
11				Enrofloxacin	100	30 days
12				Flumequine	200	30 days
13				Oxolonic acid	100	30 days
14				Sarafloxacin	30	30 days
15			Macrolides	Erythomycin	200	30 days
16				Tilmicosin	50	30 days
17				Tylosin	1000	30 days
18			Florfenicol	Florfenicol	1000	30 days
19			Tetracyclines	Chlortetracycline	100	30 days
20				Oxytetracycline	100	30 days
21				Tetracycline	100	30 days
22			Lincosamides	Lincomycin	100	30 days
23				Neomycin (including Framycetin)	500	30 days
24				Paromomycin	500	30 days
25				Spectinomycin	300	30 days
26			Polymyxins	Colistin	150	30 days
27				Thiamphenicol	50	30 days
28	Antiparasitic agents	Agents acting against ectoparasites	Organophosphates	Deltamethrin	10	30 days

29			Pyrethroids	Cypermethrin	50	30 days
30			Benzoylurea type	Diflubenzuron	1000	30 days
31				Teflubenzuron	500	30 days
32		Agents acting against endo- and ectoparasites	Avermectins	Emamectin	100	30 days
33	Anaesthetic agents		Ester type	Benzocaine	50	30 days