

## VETERINARY DRUG RESIDUES

(1) These maximum residue limits (MRLs) for veterinary drug residues are effective from 1 May 2020. (SFA circular dated 20 Apr 2020 “*Maximum Residue Limits Established for Pesticides and Veterinary Drugs Previously Not Allowed in Food*”)

Veterinary Drugs	Animal Species	Tissue (ie. Muscle, kidney, liver, eggs, or milk)	MRL (ppb)
<b>Thiamphenicol</b>	Cattle	Muscle	50
		Kidney	50
		Liver	50
		Milk	50
	Sheep	Muscle	50
		Kidney	50
		Liver	50
		Milk	50
	Pig	Muscle	50
		Kidney	50
		Liver	50
	Poultry	Muscle	50
Kidney		50	
Liver		50	
<b>Florfenicol</b>		Cattle	Muscle
	Kidney		300
	Liver		3000
	Sheep, Goat	Muscle	200
		Kidney	300
		Liver	3000
	Pig	Muscle	300
		Kidney	500
		Liver	2000
	Poultry	Muscle	100
		Kidney	750
		Liver	2500
<b>Clenbuterol</b>	Cattle	Muscle	0.2
		Kidney	0.6
		Liver	0.6
		Milk	0.05
<b>Ractopamine</b>	Cattle	Muscle	10
		Kidney	90
		Liver	40
	Pig	Muscle	10
		Kidney	90
		Liver	40
<b>Zilpaterol</b>	Cattle	Muscle	10
		Kidney	10
		Liver	10
<b>Bacitracin</b>	Cattle	Muscle	500
		Kidney	500
		Liver	500
		Milk	500
	Pig	Muscle	500
		Kidney	500
		Liver	500

<b>Veterinary Drugs</b>	<b>Animal Species</b>	<b>Tissue (ie. Muscle, kidney, liver, eggs, or milk)</b>	<b>MRL (ppb)</b>
	Chicken, Turkey, Quail and pheasants	Muscle Kidney Liver Eggs	500 500 500 500
<b>Novobiocin</b>	Cattle	Muscle Milk	1000 100
	Chicken, Turkey, Duck	Muscle	1000
<b>Virginiamycin</b>	Cattle	Muscle Kidney Liver Milk	100 200 200 100
	Sheep	Muscle Kidney Liver	100 200 200
	Pig	Muscle Kidney Liver	100 300 300
	Chicken	Muscle Kidney Liver Eggs	50 200 200 100
<b>Tylosin</b>	Cattle	Muscle Kidney Liver Milk	100 100 100 100
	Pig	Muscle Kidney Liver	100 100 100
	Chicken	Muscle Kidney Liver Eggs	100 100 100 300
<b>Erythromycin</b>	Cattle	Milk	40
	Chicken, Turkey	Muscle Kidney Liver Eggs	100 100 100 50 (Chicken)
<b>Oleandomycin</b>	Chicken	Muscle	150
<b>Tiamulin</b>	Pig	Muscle Kidney Liver	100 100 500
	Chicken	Muscle Kidney Liver Eggs	100 100 1000 1000
<b>Josamycin</b>	Pig	Muscle Kidney Liver	40 40 40
	Chicken	Muscle Kidney Liver	40 40 40
<b>Tilmicosin</b>	Cattle	Muscle Kidney Liver Milk	100 300 1000 50

<b>Veterinary Drugs</b>	<b>Animal Species</b>	<b>Tissue (ie. Muscle, kidney, liver, eggs, or milk)</b>	<b>MRL (ppb)</b>
	Sheep	Muscle	100
		Kidney	300
		Liver	1000
		Milk	50
	Pig	Muscle	100
		Kidney	1000
		Liver	1500
	Chicken	Muscle	150
		Kidney	600
		Liver	2400
	Turkey	Muscle	100
		Kidney	1200
		Liver	1400
<b>Spiramycin</b>	Cattle	Muscle	200
		Kidney	300
		Liver	600
		Milk	200
	Pig	Muscle	200
		Kidney	300
Chicken	Muscle	200	
	Kidney	800	
<b>Lincomycin</b>	Cattle	Liver	600
		Milk	150
	Pig	Muscle	200
		Kidney	1500
	Chicken	Liver	500
		Muscle	200
<b>Penicillin G</b>	Cattle	Kidney	500
		Liver	500
		Milk	50
		Eggs	50
Pig	Muscle	50	
	Kidney	50	
	Liver	50	
Chicken	Muscle	50	
	Kidney	50	
	Liver	50	
<b>Ampicillin</b>	Cattle	Muscle	50
		Kidney	50
		Liver	50
		Milk	4
	Sheep	Muscle	50
		Kidney	50
		Liver	50
		Milk	4
	Pig	Muscle	50
		Kidney	50
		Liver	50
	Poultry	Muscle	50
Kidney		50	
Liver		50	

<b>Veterinary Drugs</b>	<b>Animal Species</b>	<b>Tissue (ie. Muscle, kidney, liver, eggs, or milk)</b>	<b>MRL (ppb)</b>
<b>Oxacillin</b>	Cattle	Muscle	300
		Kidney	300
		Liver	300
		Milk	30
<b>Oxacillin</b>	Sheep	Muscle	300
		Kidney	300
		Liver	300
		Milk	30
<b>Oxacillin</b>	Pig	Muscle	300
		Kidney	300
		Liver	300
<b>Oxacillin</b>	Poultry	Muscle	300
		Kidney	300
		Liver	300
			300
<b>Nafcillin</b>	Cattle	Muscle	300
		Kidney	300
		Liver	300
		Milk	30
<b>Nafcillin</b>	Sheep	Muscle	300
		Kidney	300
		Liver	300
		Milk	30
<b>Nafcillin</b>	Pig	Muscle	300
		Kidney	300
		Liver	300
<b>Nafcillin</b>	Poultry	Muscle	300
		Kidney	300
		Liver	300
			300
<b>Cloxacillin</b>	Cattle	Muscle	300
		Kidney	300
		Liver	300
		Milk	30
<b>Cloxacillin</b>	Sheep	Muscle	300
		Kidney	300
		Liver	300
		Milk	30
<b>Cloxacillin</b>	Pig	Muscle	300
		Kidney	300
		Liver	300
<b>Cloxacillin</b>	Poultry	Muscle	300
		Kidney	300
		Liver	300
			300
<b>Dicloxacillin</b>	Cattle	Muscle	300
		Kidney	300
		Liver	300
		Milk	30
<b>Dicloxacillin</b>	Sheep	Muscle	300
		Kidney	300
		Liver	300
		Milk	30
<b>Dicloxacillin</b>	Pig	Muscle	300
		Kidney	300
		Liver	300
<b>Dicloxacillin</b>	Poultry	Muscle	300
		Kidney	300
		Liver	300
			300

<b>Veterinary Drugs</b>	<b>Animal Species</b>	<b>Tissue (ie. Muscle, kidney, liver, eggs, or milk)</b>	<b>MRL (ppb)</b>
<b>Amoxicillin</b>	Cattle	Muscle	50
		Kidney	50
		Liver	50
		Milk	4
	Sheep	Muscle	50
		Kidney	50
Liver		50	
Milk		4	
Pig	Muscle	50	
	Kidney	50	
	Liver	50	
<b>Cefoperazone</b>	Cattle	Milk	50
<b>Cefazolin</b>	Cattle	Kidney	50
		Liver	50
		Milk	50
	Sheep	Milk	50
<b>Cefalexin</b>	Cattle	Muscle	200
		Kidney	1000
		Liver	200
		Milk	100
<b>Ceftiofur</b>	Cattle	Muscle	1000
		Kidney	6000
		Liver	2000
		Milk	100
	Pig	Muscle	1000
		Kidney Liver	6000 2000
<b>Trenbolone</b>	Cattle	Muscle	2
		Liver	10
<b>Zeranol (Zer)</b>	Cattle	Muscle	2
		Kidney	20
		Liver	10
		Milk	2
	Pig	Muscle	2
		Kidney Liver	2 2
Chicken	Muscle	2	
	Kidney	2	
	Liver Eggs	2 2	
<b>Norfloxacin</b>	Pig	Muscle	20
		Kidney	20
		Liver	20
	Chicken	Muscle	20
Kidney		20	
Liver		20	
<b>SUM of Ciprofloxacin / Enrofloxacin</b>	Cattle	Muscle	100
		Kidney	200
		Liver	300
		Milk	100
	Sheep	Muscle	100
		Kidney	200
		Liver	300
		Milk	100
	Pig	Muscle	100
Kidney		300	
Liver		200	

<b>Veterinary Drugs</b>	<b>Animal Species</b>	<b>Tissue (ie. Muscle, kidney, liver, eggs, or milk)</b>	<b>MRL (ppb)</b>
	Poultry	Muscle Kidney Liver	100 300 200
<b>Danofloxacin</b>	Cattle	Muscle Kidney Liver Milk	200 400 400 30
	Pig	Muscle Kidney Liver	100 200 50
	Chicken	Muscle Kidney Liver	200 400 400
<b>Sarafloxacin</b>	Chicken, Turkey	Muscle Kidney Liver	10 80 80
<b>Difloxacin</b>	Cattle	Muscle Kidney Liver	400 800 1400
	Sheep	Muscle Kidney Liver	400 800 1400
	Pig	Muscle Kidney Liver	400 800 800
	Poultry	Muscle Kidney Liver	300 600 1900
<b>Marbofloxacin</b>	Cattle	Muscle Kidney Liver Milk	150 150 150 75
	Pig	Muscle Kidney Liver	150 150 150
<b>Doxycycline</b>	Cattle	Muscle Kidney Liver	100 600 300
	Pig	Muscle Kidney Liver	100 600 300
	Poultry	Muscle Kidney Liver	100 600 300
<b>SUM of (Chlortetracycline &amp; 4- Epichlortetracycline)</b>	Cattle	Muscle Kidney Liver Milk	200 1200 600 100
	Sheep	Muscle Kidney Liver Milk	200 1200 600 100
	Pig	Muscle Kidney Liver	200 1200 600

<b>Veterinary Drugs</b>	<b>Animal Species</b>	<b>Tissue (ie. Muscle, kidney, liver, eggs, or milk)</b>	<b>MRL (ppb)</b>
	Chickens, Turkeys, Ducks, Geese, Guinea-fowls or Pigeons	Muscle Kidney Liver Eggs	200 1200 600 400
<b>SUM of (Oxytetracycline &amp; 4-EpiOxytetracycline)</b>	Cattle	Muscle Kidney Liver Milk	200 1200 600 100
	Sheep	Muscle Kidney Liver Milk	200 1200 600 100
	Pig	Muscle Kidney Liver	200 1200 600
	Chickens, Turkeys, Ducks, Geese, Guinea-fowls or Pigeons	Muscle Kidney Liver Eggs	200 1200 600 400
<b>SUM of (Tetracycline &amp; 4-EpiTetracycline)</b>	Cattle	Muscle Kidney Liver Milk	200 1200 600 100
	Sheep	Muscle Kidney Liver Milk	200 1200 600 100
	Pig	Muscle Kidney Liver	200 1200 600
	Chickens, Turkeys, Ducks, Geese, Guinea-fowls or Pigeons	Muscle Kidney Liver Eggs	200 1200 600 400
<b>Sum of Sulfonamides</b>  <b>Sulfaguanidine (SG)</b> <b>Sulfathiazole (STH)</b> <b>Sulfadiazine (SDZ)</b> <b>Sulfapyridine (SP)</b> <b>Sulfamethiazole (SMI)</b> <b>Sulfamerazine (SMR)</b>	Cattle	Muscle Kidney Liver Milk	100 100 100 100
	Sheep	Muscle Kidney Liver Milk	100 100 100 100
	Pig	Muscle Kidney Liver	100 100 100

Veterinary Drugs	Animal Species	Tissue (ie. Muscle, kidney, liver, eggs, or milk)	MRL (ppb)
<b>Sulfadimidine (SDD)</b> <b>Sulfamethoxypyridazine (SMP)</b> <b>Sulfamonomethoxine (SMM)</b> <b>Sulfachloropyridazine (SCP)</b> <b>Sulfadoxine (SDI)</b> <b>Sulfisoxazole (SFX)</b> <b>Sulfamethoxazole (SMZ)</b> <b>Sulfaquinoxaline (SQX)</b> <b>Sulfadimethoxine (SDM)</b> <b>Sulfanilamide (SNA)</b> <b>Sulfamoxole (SMX)</b>	Poultry	Muscle Kidney Liver	100 100 100
<b>Oxolinic Acid</b>	Cattle	Muscle Kidney Liver	100 150 150
	Sheep	Muscle Kidney Liver	100 150 150
	Pig	Muscle Kidney Liver	100 150 150
	Poultry	Muscle Kidney Liver	100 150 150
<b>Flumequine</b>	Cattle	Muscle Kidney Liver Milk	500 3000 500 50
	Sheep	Muscle Kidney Liver Milk	500 3000 500 50
	Pig	Muscle Kidney Liver	500 3000 500
	Chicken	Muscle Kidney Liver	500 3000 500
	Fish	Muscle	500
<b>Nicarbazin</b>	Chicken	Muscle Kidney Liver	200 200 200
<b>Narasin</b>	Cattle	Muscle Kidney Liver	15 15 50
	Pig	Muscle Kidney Liver	15 15 50
	Chicken	Muscle Kidney Liver	15 15 50



<b>Veterinary Drugs</b>	<b>Animal Species</b>	<b>Tissue (ie. Muscle, kidney, liver, eggs, or milk)</b>	<b>MRL (ppb)</b>
<b>Salinomycin</b>	Cattle	Muscle	20
		Kidney	500
		Liver	400
<b>Salinomycin</b>	Pig	Muscle	100
		Kidney	100
		Liver	200
<b>Salinomycin</b>	Chicken	Muscle	100
		Kidney	500
		Liver eggs	500 20
<b>Monensin</b>	Cattle	Muscle	10
		Kidney	10
		Liver Milk	100 2
<b>Monensin</b>	Sheep / Goat	Muscle	10
		Kidney	10
		Liver	20
<b>Monensin</b>	Chicken, Turkey, Quail	Muscle	10
		Kidney	10
		Liver	10
<b>Lasalocid</b>	Chicken, Turkey, Quail, Pheasants	Muscle	400
		Kidney	600
		Liver Eggs	1200 150
<b>Diclazuril</b>	Sheep	Muscle	500
		Kidney	2000
		Liver	3000
<b>Diclazuril</b>	Chickens, Turkeys, Ducks, Geese, Guinea-fowls or Pigeons	Muscle	500
		Kidney	2000
		Liver	3000
<b>Maduramycin</b>	Chicken	Muscle	240
		Liver	720
<b>Robenidine</b>	Chicken	Muscle	100
		Kidney	100
		Liver	100
<b>Clopidol</b>	Cattle	Muscle	200
		Kidney	3000
		Liver Milk	2000 20
<b>Clopidol</b>	Pig	Muscle	200
		Kidney	200
		Liver	200
<b>Clopidol</b>	Chicken	Muscle	5000
		Kidney	20 000
		Liver Eggs	20 000 200
<b>Abamectin</b>	Cattle	Kidney	50
		Liver	100
	Sheep	Muscle	20
		Kidney	20
		Liver	25

<b>Veterinary Drugs</b>	<b>Animal Species</b>	<b>Tissue (ie. Muscle, kidney, liver, eggs, or milk)</b>	<b>MRL (ppb)</b>
<b>Doramectin</b>	Cattle	Muscle Kidney Liver Milk	10 30 100 15
	Pig	Muscle Kidney Liver	5 30 100
<b>Emamectin Benzoate</b>	Cattle	Kidney Liver	10 10
	Pig	Kidney Liver	10 10
	Salmon, Trout	Muscle	100
<b>Eprinomectin</b>	Cattle	Muscle Kidney Liver Milk	100 300 2000 20
	Cattle	Muscle Kidney Liver Milk	30 100 800 10
<b>Ivermectin</b>	Sheep	Liver	15
	Pig	Liver	15
<b>Moxidectin</b>	Cattle & Deer	Muscle Kidney Liver Milk	20 50 100 40
	Sheep	Muscle Kidney Liver Milk	50 50 100 40
<b>SUM of (Dihydrostreptomycin and Stretomycin)</b>	Cattle	Muscle Kidney Liver Milk	600 1000 600 200
	Sheep	Muscle Kidney Liver Milk	600 1000 600 200
	Pig	Muscle Kidney Liver	600 1000 600
	Chickens, Turkeys, Ducks, Geese, Guinea- fowls or Pigeons	Muscle Kidney Liver	600 1000 600
<b>Gentamicin</b>	Cattle	Muscle Kidney Liver Milk	100 5000 2000 200
	Pig	Muscle Kidney Liver	100 5000 2000

Veterinary Drugs	Animal Species	Tissue (ie. Muscle, kidney, liver, eggs, or milk)	MRL (ppb)
<b>Kanamycin</b>	Cattle	Muscle	100
		Kidney	2500
		Milk	150
	Sheep	Muscle	100
	Kidney	2500	
	Milk	150	
	Pig	Muscle	100
		Kidney	2500
	Poultry	Muscle	100
		Kidney	2500
<b>Neomycin</b>	Cattle	Muscle	500
		Kidney	10 000
		Liver	500
		Milk	1500
Sheep	Muscle	500	
	Kidney	10 000	
	Liver	500	
Pig	Muscle	500	
	Kidney	10 000	
	Liver	500	
Chicken, Turkey, Duck	Muscle	500	
	Kidney	10 000	
	Liver	500	
	Eggs	500 (Chicken)	
<b>Paromomycin</b>	Cattle	Muscle	500
		Kidney	1500
		Liver	1500
	Sheep	Muscle	500
	Kidney	1500	
	Liver	1500	
Pig	Muscle	500	
	Kidney	1500	
	Liver	1500	
Poultry	Muscle	500	
	Kidney	1500	
	Liver	1500	
<b>Trimethoprim</b>	Cattle	Muscle	50
		Kidney	50
		Liver	50
		Milk	50
Sheep	Muscle	50	
	Kidney	50	
	Liver	50	
Pig	Muscle	50	
	Kidney	50	
	Liver	50	
Poultry	Muscle	50	
	Kidney	50	
	Liver	50	
<b>SUM of Albendazole and Albendazole</b>	Cattle	Muscle	100
		Kidney	5000
		Liver	5000
		Milk	100

<b>Veterinary Drugs</b>	<b>Animal Species</b>	<b>Tissue (ie. Muscle, kidney, liver, eggs, or milk)</b>	<b>MRL (ppb)</b>	
<b>Sulfone and Albendazole Sulfoxide</b>	Sheep	Muscle	100	
		Kidney	5000	
		Liver	5000	
		Milk	100	
<b>SUM of Thiabendazole and Hydroxythiabendazole</b>	Cattle	Muscle	100	
		Kidney	100	
		Liver	100	
		Milk	100	
	Sheep	Muscle	100	
		Kidney	100	
Pig	Liver	100		
	Muscle	100		
	Kidney	100		
<b>Mebendazole</b>	Sheep	Liver	400	
		Muscle	60	
		Kidney	60	
<b>Flubendazole</b>	Pig	Liver	10	
		Kidney	300	
		Muscle	10	
	Chickens, Turkeys, Ducks, Geese, Guinea-fowls or Pigeons	Eggs	400	
		Liver	500	
		Kidney	300	
Muscle	200			
	<b>SUM of Oxfendazole and Fenbendazole</b>	Cattle	Muscle	100
			Kidney	100
Liver			500	
Milk			100	
Sheep / Goat		Muscle	100	
		Kidney	100	
Pig	Liver	500		
	Milk	100 (Sheep)		
	Muscle	100		
<b>Levamisole</b>	Cattle	Kidney	100	
		Liver	10	
		Muscle	10	
	Sheep	Muscle	10	
		Kidney	10	
		Liver	100	
	Pig	Muscle	10	
		Kidney	10	
Liver		100		
Chickens, Turkeys, Ducks, Geese, Guinea-fowls or Pigeons	Liver	100		
	Muscle	10		
	Kidney	10		
	Muscle	10		
<b>Triclabendazole</b>	Cattle	Liver	850	
		Kidney	400	
		Muscle	250	

Veterinary Drugs	Animal Species	Tissue (ie. Muscle, kidney, liver, eggs, or milk)	MRL (ppb)
	Sheep	Muscle Kidney Liver	200 200 300
<b>Oxybendazole</b>	Pig	Muscle Kidney Liver	100 100 200
<b>5-Hydroflunixin</b>	Cattle	Milk	50
<b>Diclofenac</b>	Cattle	Muscle Kidney Liver Milk	5 10 5 0.1
	Pig	Muscle Kidney Liver	5 10 5
<b>Flunixin</b>	Cattle	Muscle Kidney Liver	20 100 300
	Pig	Muscle Kidney Liver	50 30 200
<b>Meloxicam</b>	Cattle/Goat	Muscle Kidney Liver Milk	20 65 65 15
	Pig	Muscle Kidney Liver	20 65 65
<b>Dexamethasone</b>	Cattle	Muscle Kidney Liver Milk	1 1 2 0.3
	Pig	Muscle Kidney Liver	1 1 2
<b>6-Alpha-Methylprednisolone</b>	Cattle	Muscle Kidney Liver	10 10 10
<b>Prednisolone</b>	Cattle	Muscle	4
		Kidney	10
		Liver	10
		Milk	6

(2) This maximum residue limit (MRL) for nicarbazin is effective from 4 January 2021. (SFA circular dated 4 December 2020 “Maximum Residue Limit Established for NICARBAZIN IN SHELL EGGS”)

Veterinary Drug	Commodity	MRL (ppb)
Nicarbazin	Shell Eggs	300

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In addition to the above maximum residue limits for veterinary drug residues, **Regulation 33 of the Food Regulations** stipulates the following:

No person shall import, sell, advertise, manufacture, consign or deliver, any meat or any food derived from meat which contains residues of the following compounds:

- (a) diethylstilbestrol (3, 4-bis(p-hydroxyphenyl)-3-hexene);
- (b) hexoestrol (3, 4-bis(p-hydroxyphenyl)-n-hexane);
- (c) dienoestrol (3, 4-bis(p-hydroxyphenyl)-2, 4-hexadiene).

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