

NATIONAL PLAN FOR RESIDUES AND CONTAMINANTS CONTROL – PNCRC

2017 SAMPLING PLAN

TABLE 1 – MEAT SAMPLING PLAN – PNCRC 2017

Substance Class	Substance	Matrix Analyzed	REFERENCE LIMITS (µg/Kg)						No. of samples
			Bovine	Equine	Porcine	Poultry	Ostrich/ Rabbit	Caprine/ Ovine	
Antimicrobials	Lincomycin	Kidney	1500	1500	1500	500	--	--	Bovine – 600 Poultry – 600 Porcine – 600 Equine - 8
	Erythromycin		400	200	400	400	--	--	
	Tylosin		100	100	100	100	--	--	
	Neomycin		10000	5000	10000	10000	--	--	
	Streptomycin		Sum of 1000	Sum of 500	Sum of 1000	Sum of 1000	--	--	
	Dihydrostreptomycin						--	--	
	Spectinomycin		5000	5000	5000	5000	--	--	
	Kanamycin		2500	2500	2500	2500	--	--	
	Apramycin		20000	2000	2000	1000	--	--	
	Gentamicin		5000	500	5000	500	--	--	
	Tobramycin		500	500	500	500	--	--	
	Hygromycin		--	--	500	--	--	--	
	Tilmicosin		300	1000	1000	600	--	--	
	Amikacin		500	500	500	500	--	--	
	Clindamycin		200	200	200	200	--	--	
	Ampicillin		50	50	50	50	--	--	
	Cefazolin		50	50	50	50	--	--	
	Oxacillin		300	300	300	300	--	--	
	Penicillin G		50	50	50	50	--	--	
	Penicillin V		25	25	25	25	--	--	
	Chlortetracycline		Sum of 1200	Sum of 1200	Sum of 1200	Sum of 1200	--	--	
	Tetracycline						--	--	
	Oxytetracycline						--	--	
	Doxycycline		600	600	600	600	--	--	
	Amoxicillin		--	--	50	--	--	--	
	Nafcillin		--	--	5	--	--	--	
Cloxacillin	--	--	300	--	--	--			
Dicloxacillin	--	--	300	--	--	--			
Dapsone	--	--	5 ⁽¹⁾	--	--	--			
Rifampicin	--	--	10	--	--	--			

Nitrofurazone- SEM	Muscle	1 ⁽¹⁾	1 ⁽¹⁾	1 ⁽¹⁾	1 ⁽¹⁾	1 ⁽¹⁾	--	Bovine – 75 Poultry - 460 Porcine - 60 Ostrich – 10 Equine - 8
Furazolidone- AOZ		1 ⁽¹⁾	1 ⁽¹⁾	1 ⁽¹⁾	1 ⁽¹⁾	1 ⁽¹⁾	--	
Furaltadone- AMOZ		1 ⁽¹⁾	1 ⁽¹⁾	1 ⁽¹⁾	1 ⁽¹⁾	1 ⁽¹⁾	--	
Nitrofurantoin- AHD		1 ⁽¹⁾	1 ⁽¹⁾	1 ⁽¹⁾	1 ⁽¹⁾	1 ⁽¹⁾	--	
Florfenicol	Muscle	200	--	200	--	--	--	Bovine – 100 Poultry - 200 Porcine – 150 Ostrich – 10 Equine - 8
Chloramfenicol		0.30 ⁽¹⁾	0.30 ⁽¹⁾	0.30 ⁽¹⁾	0.30 ⁽¹⁾	0.30 ⁽¹⁾	--	
Thiamfenicol		50	--	50	--	--	--	
Carbadox	Muscle	--	--	5 ⁽¹⁾	--	--	--	Porcine - 30
Chlortetracycline	Muscle	Sum of 100	Sum of 100	Sum of 100	Sum of 100	--	--	Bovine 600 Poultry – 600 Porcine – 600 Equine – 8
Tetracycline						--	--	
Oxytetracycline						--	--	
Doxycycline		100	100	100	100	--	--	
Sulfachlorpyridazine		Sum of 100	Sum of 100	Sum of 100	Sum of 100	--	--	
Sulfadoxine						--	--	
Sulfamerazine						--	--	
Sulfadiazine						--	--	
Sulfamethoxazole						--	--	
Sulfathiazole						--	--	
Sulfamethazine						--	--	
Sulfaquinoxaline						--	--	
Sulfadimethoxine						--	--	
Sulfisoxazole						--	--	
Oxolinic Acid		100	100	100	100	--	--	
Nalidixic Acid		20	10	20	20	--	--	
Flumequine		500	200	500	500	--	--	
Enrofloxacin		Sum of 100	Sum of 100	Sum of 100	Sum of 100	--	--	
Ciprofloxacin						--	--	

	Sarafloxacin		20	10	10	10	--	--	
	Difloxacin		400	300	400	300	--	--	
	Danofloxacin		200	100	100	200	--	--	
	Spiramycin		200	10	250	200	--	--	
	Erythromycin		100	100	100	100	--	--	
	Azithromycin		15	15	15	15	--	--	
	Tylosin		100	100	100	100	--	--	
	Lincomycin		100	100	200	200	--	--	
	Clindamycin		15	15	15	15	--	--	
	Norfloxacn		20	20	20	20	--	--	
	Trimethoprim		50	100	50	50	--	--	
	Tilmicosin		100	50	100	150	--	--	
Sedatives	Acepromazine	Kidney	10	10	10	--	--	--	Bovine – 60 Porcine – 60 Equine - 8
	Chlorpromazine		10	10	10	--	--	--	
	Carazolol		15	10	10	--	--	--	
	Azaperol		Sum of	10	Sum of	--	--	--	
	Azaperone		100	10	100	--	--	--	
	Xylasine		(6)	10	(6)	--	--	--	
Antiparasitics	Abamectin ⁽²⁾	Liver	100	10	10	10	--	25	Bovine – 600 Poultry – 90 Porcine – 300 Equine - 25 Ovine – 10
	Doramectin		100	10	100	10	--	100	
	Ivermectin ⁽³⁾		100	100	15	10	--	15	
	Eprinomectin ⁽⁴⁾		2000	10	10	10	--	1500	
	Moxidectin		100	100	10	10	--	100	
	Emamectin		--	--	--	--	--	50	
	Monensin	Liver	20	--	--	--	--	--	Bovine – 200
	Fipronil		100	--	--	--	--	--	
	Dimetridazole	Muscle	3 ⁽¹⁾	3 ⁽¹⁾	3 ⁽¹⁾	3 ⁽¹⁾	--	--	Bovine – 120 Poultry – 90 Porcine – 60 Equine – 18
	Ronidazole		3 ⁽¹⁾	--	3⁽¹⁾	--	--	--	
	Metronidazole		3 ⁽¹⁾	--	3⁽¹⁾	--	--	--	
	Albendazole		100	--	100	--	--	--	
	Fembendazole			--		--	--	--	
	Oxyfendazole		100 ⁽⁵⁾	--	100 ⁽⁵⁾	--	--	--	
Febantel			--		--	--	--		
Flubendazole	10		--	10	200	--	--		
Thiabendazole	100		--	100	--	--	--		
Triclabendazole	250		--	500	--	--	--		
Closantel	1000	--	--	--	--	--			

	Levamisole		10	--	10	10	--	--	
Anticoccidials	Salinomycin	Muscle	--	--	100	100	--	--	Poultry – 600 Porcine - 90
	Narasin		--	--	15	15	--	--	
	Lasalocid		--	--	50	60	--	--	
	Monensin		--	--	10	10	--	--	
	Maduramicin		--	--	15	240	--	--	
	Semduramicin		--	--	15	50	--	--	
	Trimethoprim		--	--	50	50	--	--	
	Amprolium		--	--	15	500	--	--	
	Clopidol		--	--	200	5000	--	--	
	Toltrazuril		--	--	100	500	--	--	
	Diclazuril		--	--	50	500	--	--	
	Diaveridine		--	--	15	50	--	--	
	Robenidine		--	--	15	100	--	--	
	Nicarbazin		--	--	50	200	--	--	
	Ethopobate		--	--	15	500	--	--	
	Decoquinat		--	--	20	1000	--	--	
Avilamycin ⁽⁹⁾	--	--	50	50	--	--			
Mycotoxins	Aflatoxin B1	Liver	--	--	0.5	0.5	--	--	Poultry - 30 Porcine - 30
	Ochratoxin A		--	--	0.5	0.5	--	--	
Inorganic Contaminants	Arsenic (As)	Muscle	--	⁽⁶⁾	--	--	--	--	Bovine – 200 Poultry – 200 Porcine – 150 Ostrich – 5 Caprine - 4 Ovine – 4 Equine – 40 Rabbit – 6
		Kidney	1000	--	1000	--	--	1000	
		Liver	--	--	--	1000	1000	--	
	Cadmium (Cd)	Muscle	--	200	--	--	--	--	
		Kidney	1000 ⁽⁷⁾	--	1000	--	--	1000	
		Liver	--	--	--	500	500	--	
	Lead (Pb)	Muscle	--	--	--	--	--	--	
		Kidney	500	500	500	--	--	500	
		Liver	--	--	--	500	500	--	
	Mercury	Muscle	30	--	30	30	--	--	
Substances with Anabolizing Action	Diethylestilbestrol	Urine	1 ⁽¹⁾	--	--	--	--	--	Live bovine – 600 ⁽⁹⁾
	Zeranol ⁽⁸⁾		2 ⁽¹⁾	--	--	--	--	--	
	Hexestrol		2 ⁽¹⁾	--	--	--	--	--	
	Dienestrol		2 ⁽¹⁾	--	--	--	--	--	

	Trenbolone		2 ⁽¹⁾	--	--	--	--	
	Methenolone	Urine	2 ⁽¹⁾	--	--	--	--	Bovine – 600
	Methandienone		2 ⁽¹⁾	--	--	--	--	
	Ethisterone		2 ⁽¹⁾	--	--	--	--	
	Norethandrolone		2 ⁽¹⁾	--	--	--	--	
	16-β-Stanozolol		2 ⁽¹⁾	--	--	--	--	
	Diethylestilbestrol		1 ⁽¹⁾	--	--	--	--	
	Zeranol ⁽⁸⁾		2 ⁽¹⁾	--	--	--	--	
	Hexestrol		2 ⁽¹⁾	--	--	--	--	
	Dienestrol		2 ⁽¹⁾	--	--	--	--	
	17-α-Trenbolone		2 ⁽¹⁾	--	--	--	--	
	Beta Boldenone		1 ⁽¹⁾	--	--	--	--	
	Diethylestilbestrol	Urine	--	1 ⁽¹⁾	1 ⁽¹⁾	--	--	Porcine - 60
	Dienestrol		--	2 ⁽¹⁾	2 ⁽¹⁾	--	--	Equine - 8
	Norethandrolone		--	2 ⁽¹⁾	2 ⁽¹⁾	--	--	
	Ethisterone		--	2 ⁽¹⁾	2 ⁽¹⁾	--	--	
	Hexestrol		--	2 ⁽¹⁾	2 ⁽¹⁾	--	--	
	Methandienone		--	2 ⁽¹⁾	2 ⁽¹⁾	--	--	
	Methenolone		--	2 ⁽¹⁾	2 ⁽¹⁾	--	--	
	Zeranol ⁽⁸⁾		--	2 ⁽¹⁾	2 ⁽¹⁾	--	--	
	Beta Boldenone ⁽⁶⁾		--	1 ⁽¹⁾	1 ⁽¹⁾	--	--	
	Diethylestilbestrol	Liver	--	--	--	2 ⁽¹⁾	--	Poultry - 30
	Zeranol ⁽⁸⁾		--	--	--	2 ⁽¹⁾	--	
	2-Thiouracil	Urine	10 ⁽¹⁾	--	10 ⁽¹⁾	--	--	Bovine – 85
	6-Methyl, 2-Thiouracil		10 ⁽¹⁾	--	10 ⁽¹⁾	--	--	Porcine – 60
	6-Propyl, 2-Thiouracil		10 ⁽¹⁾	--	10 ⁽¹⁾	--	--	
	Tapazole		10 ⁽¹⁾	--	10 ⁽¹⁾	--	--	
Beta-agonists	Salbutamol	Liver	--	5 ⁽¹⁾	5 ⁽¹⁾	5 ⁽¹⁾	--	Poultry – 75 Equine - 5 Porcine - 30
	Clembuterol		--	0.25 ⁽¹⁾	0.2 ⁽¹⁾	0.2 ⁽¹⁾	--	
	Salbutamol	Urine	1 ⁽¹⁾	--	--	--	--	Live bovine – 600 ⁽⁹⁾
	Clembuterol		0.25 ⁽¹⁾	--	--	--	--	
	Salbutamol	Urine	1 ⁽¹⁾	--	--	--	--	Bovine – 150
	Clembuterol		0.25 ⁽¹⁾	--	--	--	--	

	Cimaterol		0.5 ⁽¹⁾	--	--	--	--	--	
	Zilpaterol		1 ⁽¹⁾	--	--	--	--	--	
	Ractopamine		0.25 ⁽¹⁾	--	--	--	--	--	
	Ractopamine	Muscle	10	--	10	--	--	--	Bovine – 150 Porcine - 150
Non-Hormonal Anti-inflammatories	Naproxen	Muscle	10	--	10	--	--	--	Bovine – 100 Equine – 5 Porcine – 60
	Mefenamic acid		10	--	10	--	--	--	
	Tolfenamic Acid		50	--	50	--	--	--	
	Carprofen		500	--	10	--	--	--	
	Flunixin meglumine		20	10	50	--	--	--	
	Nimesulide		10	--	10	--	--	--	
	Phenylbutazone		5	10	5	--	--	--	
	Meloxicam		20	--	10	--	--	--	
	Metamizole ⁽¹⁰⁾		100	--	100	--	--	--	
	Propyphenazone		10	--	10	--	--	--	
	Ketoprofen		50	--	10	--	--	--	
	Diclofenac		5	--	5	--	--	--	
	Indomethacin		10	--	10	--	--	--	
	Piroxicam		10	--	10	--	--	--	
Steroidal Anti-inflammatories	Dexamethasone	Liver	2	2	2	--	--	--	Bovine - 60 Equine – 5 Porcine - 60
	Prednisolone		10	6	10	--	--	--	
	Prednisone		10	10	10	--	--	--	
	Betamethasone		2	2	2	--	--	--	
Organochlorines and PCBs	Aldrin	Fat	100	100	100	100	--	--	Bovine - 30 Poultry – 30 Porcine – 30 Equine - 8
	Alpha-HCH		200	200	200	200	--	--	
	HCB		200	200	200	200	--	--	
	Dieldrin		100	100	100	100	--	--	
	Heptachlor		Sum of 200	Sum of 200	Sum of 200	Sum of 200	--	--	
	Heptachlor epoxide						--	--	
	Cis Chlordane		Sum of 50	Sum of 50	Sum of 50	Sum of 50	--	--	
	Trans Chlordane						--	--	
	pp'-DDT		Sum of 1000	Sum of 1000	Sum of 1000	Sum of 1000	--	--	

	pp'-DDE						--	--	
	op'-DDT						--	--	
	pp'-DDD						--	--	
	PCB 101		Sum of 200	Sum of 200	Sum of 200	Sum of 200	--	--	
	PCB 118						--	--	
	PCB 138						--	--	
	PCB 153						--	--	
	PCB 180						--	--	
	Gamma-HCH		100	--	---	--	--	--	
	Dodecachloride		100	100	100	100	--	--	
Dioxins, Furans, and PCBs	PCDDs, PCDFs, and PCBs	Fat	PCDD/F: 2.5 pg/g ⁽¹¹⁾⁽¹²⁾ PCDD/F-PCB: 4.0pg/g ⁽¹¹⁾⁽¹²⁾	--	PCDD/F: 1.0 pg/g ⁽¹¹⁾⁽¹²⁾ PCDD/F-PCB: 1.25 pg/g ⁽¹¹⁾⁽¹²⁾	PCDD/F:1.75 pg/g ⁽¹¹⁾⁽¹²⁾ PCDD/F-PCB: 3.0 pg/g ⁽¹¹⁾⁽¹²⁾	--	--	Poultry – 200 Bovine – 60 Porcine – 200
Organophosphates, Pyrethroids, Pyrazoles, Neonicotinoids, Carbamates, and Benzimidazoles	⁽¹⁶⁾	Muscle	⁽¹⁶⁾	⁽¹⁶⁾	⁽¹⁶⁾	⁽¹⁶⁾	--	--	Bovine – 140 Poultry - 45 Porcine - 45 Equine - 8

TABLE 2 – MILK SAMPLING PLAN – PNCRC 2017

Substance Class	Substance	Matrix Analyzed	REFERENCE LIMITS (µg/L)	No. of samples
Mycotixins	Aflatoxin M1	Milk	0.5	60
Antiparasitics	Abamectin ⁽³⁾	Milk	10	300
	Doramectin		15	
	Eprinomectin		20	
	Ivermectin ⁽⁴⁾		10	
	Moxidectin		10	
	Albendazole	Milk	100	90
	Trimethoprim	50		
Antimicroboals	Chlortetracycline	Milk	Sum of 100	600
	Oxytetracycline			
	Tetracycline			
	Doxycycline			
	Sulfathiazole			
	Sulfamethazine			
	Sulfadimethoxine			
	Sulfachlorpyridazine			
	Sulfadiazine			
	Sulfadoxine			
	Sulfamerazine			
	Sulfamethoxazole			
	Sulfaquinoxaline			
	Sufisoxasol			
	Oxolinic Acid		20	
	Nalidixic Acid	20		
	Flumequine	50		
	Ceftiofur	100		
	Cefquinome	20		
	Cephalonium	20		
	Cephapirin	60		
	Cephalexin	100		
	Cefoperazone	50		
	Erythromycin	40		
	Spiramycin	200		
	Lincomycin	150		
	Tylosin	100		

	Clindamycin		10	
	Tilmicosin		50	
	Cloxacillin		30	
	Dicloxacillin		30	
	Nafcillin		30	
	Ampicillin		4	
	Amoxicillin		4	
	Trimethoprim		50	
	Bromhexine		50	
	Oxacillin		30	
	Penicillin G		4	
	Penicillin V		4	
	Ciprofloxacin		Sum of 100	
	Enrofloxacin			
	Sarafloxacin		20	
	Danofloxacin		30	
	Difloxacin		100	
	Norfloxacin		10	
	Chloramfenicol		0.30 ⁽¹⁷⁾	
	Thiamfenicol		10	
	Florfenicol		10	
	Azithromycin		25	
Inorganic Contaminants	Arsenic	Milk	50	150
	Cadmium		50	
	Lead		20	
Dioxins, Furans, and PCBs	PCDD	Milk	PCDD/F – 2.5 pg/g ⁽¹¹⁾⁽¹²⁾ PCDD/F-PCB – 5.5 pg/g ⁽¹¹⁾⁽¹²⁾	60
	PCDF			
	PCBs			
Organophosphates, Pyrethroids, Pyrazoles, Neonicotinoids, Carbamates, and Benzimidazoles	⁽¹⁶⁾	Milk	⁽¹⁶⁾	45

TABLE 3 – HONEY SAMPLING PLAN – PNCRC 2017

Substance Class	Substance	Matrix Analyzed	REFERENCE LIMITS (µg/L)	No. of Samples	
Antimicrobials	Chlortetracycline	Honey	Sum of 20	60	
	Oxytetracycline				
	Tetracycline				
	Doxycycline				
	Sulfathiazole				Sum of 50
	Sulfamethazine				
	Sulfadimethoxine				
	Tylosin				
	Erythromycin				
	Nitrofurazone- SEM				Honey
	Furazolidone- AOZ	1 ⁽¹⁾			
	Furaltadone- AMOZ	1 ⁽¹⁾			
	Nitrofurantoin- AHD	1 ⁽¹⁾			
	Chloramfenicol	0.30 ⁽¹⁷⁾			
	Halogenated and Organochlorinated Compounds	Aldrin	Honey	10	60
Alpha-Endosulfan		10			
4,4-DDE		10			
4,4-DDD		10			
4,4 DDT		10			
Dodecachloride		10			
Endrin		10			
Tetradifon		20			
Vinclozolin		20			
Heptachlor		10			
Alpha-HCH		10			
Beta-HCH		10			
Gamma-HCH		10			
Carbamates		Carbofuran		50	
		Carbaril		20	
	Captan	50			
Pyrethroids	Permethrin	20			
	Cyfluthrin	20			
	Fenpropathrin	10			
	Deltamethrin	20			
	Amitraz	200			

Organophosphates	Chlorpyrifos		20	
	Dimethoate		20	
	Disulfoton		10	
	Pirimiphos-methyl		50	
	Parathion		20	
	Fenamiphos		10	
	Terbufos		10	
	Profenofos		20	
Inorganic Contaminants	Arsenic (As)	Honey	300	60
	Cadmium (Cd)		100	
	Lead (Pb)		300	
Organophosphates, Pyrethroids, Pyrazoles, Neonicotinoids, Carbamates, and Benzimidazoles	(16)	Honey	(16)	45

TABLE 4 – FISH SAMPLING PLAN – PNCRC 2017

Substance Class	Substance	Matrix Analyzed	REFERENCE LIMITS (µg/kg)			No. of samples		
			Wild-caught Fish	Farm-raised Fish	Shrimp			
Inorganic Contaminants	Mercury	Muscle	(13)	(13)	500	Wild-Caught Fish - 60 ⁽⁶⁾ Farm-Raised Fish – 60 Shrimp - 60		
	Arsenic ⁽⁶⁾		1000	1000	1000			
	Cadmium		(14)	(14)	500			
	Lead		300	300	500			
Antimicrobials	Nitrofurazone - SEM	Muscle	--	1 ⁽¹⁾	1 ⁽¹⁾	Farm-Raised Fish - 60 Shrimp - 60		
	Furazolidone - AOZ		--	1 ⁽¹⁾	1 ⁽¹⁾			
	Furaltadone - AMOZ		--	1 ⁽¹⁾	1 ⁽¹⁾			
	Nitrofurantoin - AHD		--	1 ⁽¹⁾	1 ⁽¹⁾			
	Oxytetracycline	Muscle	--	Sum of 200	100	Farm-Raised Fish – 60 Shrimp - 60		
	Chlortetracycline		--		100			
	Tetracycline		--		100			
	Doxycycline	Muscle	--	100	100			
	Sulfachlorpyridazine		--	Sum of 100	Sum of 100			
	Sulfadoxine		--					
	Sulfamerazine		--					
	Sulfadiazine		--					
	Sulfamethoxazole		--					
	Sulfathiazole		--					
	Sulfamethazine		--					
	Sulfaquinoxaline		--					
	Sulfadimethoxine		--					
	Enrofloxacin		Muscle			--	Sum of 100	--
	Ciprofloxacin					--		--
	Sarafloxacin					--	30	--
	Difloxacin					--	300	--
	Nalidixic Acid	--				20	--	
	Oxolinic Acid	--		100	--			
	Flumequine	--		600	--			
	Chloramfenicol	--		0.30 ⁽¹⁾	0.30 ⁽¹⁾			
	Thiamfenicol	--		50	50			
	Florfenicol	--		1000	1000			
	Substances with Anabolizing Action	Diethylestilbestrol (DES)		Muscle	--	1 ⁽¹⁾	--	Farm-Raised Fish - 45
Dyes	Malachite Green ⁽¹⁵⁾	Muscle		--	2 ⁽¹⁾	2 ⁽¹⁾	Farm-Raised Fish – 60	

	Crystal violet ⁽¹⁵⁾		--	2 ⁽¹⁾	2 ⁽¹⁾	Shrimp - 60
Organochlorines	Alpha-HCH	Muscle	--	15	--	Farm-Raised Fish - 30
	Beta-HCH		--	15	--	
	Delta-HCH		--	15	--	
	Dodecachloride		--	15	--	
	Aldrin		--	15	--	
	Endrin		--	15	--	
	Heptachlor		--	15	--	
Dioxins, Furans, and PCBs	PCDDs, PCDFs, and PCBs	Muscle	PCDD/F – 3.5 pg/g ⁽¹¹⁾⁽¹²⁾	PCDD/F – 3.5 pg/g ⁽¹¹⁾⁽¹²⁾	--	Wild-Caught Fish - 60
			PCDD/F-PCB – 6.5 pg/g ⁽¹¹⁾⁽¹²⁾	PCDD/F-PCB – 6.5 pg/g ⁽¹¹⁾⁽¹²⁾	--	Farm-Raised Fish - 60
Organophosphates, Pyrethroids, Pyrazoles, Neonicotinoids, Carbamates, and Benzimidazoles	⁽¹⁶⁾	Muscle	--	⁽¹⁶⁾	--	Farm-Raised Fish - 30

TABLE 5 – EGG SAMPLING PLAN – PNCRC 2017

Substance Class	Substance	Matrix Analyzed	REFERENCE LIMITS (µg/kg)	No. of samples
Antimicrobials	Nitrofurazone- SEM	Egg	1 ⁽¹⁾	60
	Furazolidone- AOZ		1 ⁽¹⁾	
	Furaltadone- AMOZ		1 ⁽¹⁾	
	Nitrofurantoin- AHD		1 ⁽¹⁾	
	Chloramfenicol		0.30 ⁽¹⁾	
	Bacitracina		10	60
	Colistina		300	
	Gentamicin		10	
	Amoxicillin		10	300
	Ampicillin		10	
	Erythromycin		50	
	Penicillin V		25	
	Lincomycin		50	
	Tylosin		300	
	Tiamulina		1000	
	Tilmicosin		10	
	Oxytetracycline		Sum of 400	
	Chlortetracycline			
	Tetracycline			
	Doxycycline			
	Praziquantel		200	
	Gentamicin		10	
	Mebendazole		10	
	Levamisole		10	
	Oxybendazole		10	
	Febendazole		1300	
	Albendazole		10	
	Flubendazole		400	
	Sulfathiazole		Sum of 10	
	Sulfamethazine			
	Sulfadiazine			
	Sulfamerazine			
	Sulfaquinoxaline			
Sulfadimethoxine				
Sulfadoxine				

	Sulfamethoxazole			
	Sulfachlorpyridazine			
	Avilamycin ⁽⁹⁾		10	
	Enrofloxacin		10	
	Norfloxacin		10	
	Ciprofloxacin		10	
	Danofloxacin		10	
	Sarafloxacin		10	
	Difloxacin		10	
	Oxolinic Acid		10	
	Nalidixic Acid		10	
	Flumequine		10	
	Thiamfenicol		10	
	Florfenicol		10	
	Chloramfenicol		0.30 ⁽¹⁾	
Anticoccidials	Ethopobate	Egg	10	
	Lasalocid		10	
	Monensin		10	
	Decoquinat		20	
	Nicarbazin		300	
	Clopidol		10	
	Semduramicin		10	
	Trimethoprim		10	
	Salinomycin		10	
	Diaveridine		10	
	Toltrazuril		10	
	Robenidine		25	
	Amprolio		10	
	Narasin		10	
	Diclazuril		10	
	Maduramicin		12	
Antiparasitics	Dimetridazole	Egg	3 ⁽¹⁾	60
	Ronidazole		3 ⁽¹⁾	
	Metronidazole		3 ⁽¹⁾	
	Ipronidazole		3 ⁽¹⁾	
Organochlorines and PCBs	Aldrin	Egg	100	60
	Dieldrin			
	Endrin		10	
	Heptachlor + heptachlor		50	

	epoxide			
	HexaChloroBenzene		20	
	Gamma-HCH		10	
	Alpha-HCH		20	
	Delta-HCH		10	
	Dodecachloride		10	
	4,4-DDE		50	
	4,4-DDT			
	4,4-DDD			
	2,4-DDE			
	2,4-DDT			
	2,4-DDD			
	PCB 28		40 (fat)	
	PCB 52			
	PCB 101			
	PCB 138			
	PCB 153			
	PCB 180			
Dioxins, Furans, and PCBs	PCDDs, PCDFs, and PCBs	Egg	PCDD/F – 2.5 pg/g of fat ⁽¹¹⁾⁽¹²⁾ PCDD/F-PCB – 5.0 pg/g of fat ⁽¹¹⁾⁽¹²⁾	200
Organophosphates, Pyrethroids, Pyrazoles, Neonicotinoids, Carbamates, and Benzimidazoles	⁽¹⁶⁾	Egg	⁽¹⁶⁾	45

⁽¹⁾ Prohibited substance. The value indicated in the table corresponds to the Minimum Required Performance Level (MRPL) of reference for analysis. The MRPL is the reference limit for taking action.

⁽²⁾ The limit for Abamectin refers to the marker residue Abamectin B1a.

⁽³⁾ The limit for Ivermectin refers to the marker residue 22,23-Dihydro-avermectin B1a.

⁽⁴⁾ The limit for Eprinomectin refers to the marker residue Eprinomectin B1a.

⁽⁵⁾ The limit refers to the sum of fembendazole, oxfendazole, and fembendazole sulfone, expressed as the equivalent of fembendazole sulfone.

⁽⁶⁾ Exploratory subprogram within the adoption of regulatory measures.

⁽⁷⁾ Investigatory subprograms will not be set up when the result refers to animals estimated to be older than 6 years of age.

⁽⁸⁾ In the case of positive results for Zeranol, a quali-quantitative evaluation of α -zearalanol (= zeranol) and β -zearalanol (= taleranol) and the metabolites of the fungus *Fusarium spp* (α -zearalenol, β - zearalenol, and zearalenone). When the analytical result demonstrates the presence of both Zeranol and Zearalenone, the presence of Zeranol will be considered to be due to the presence of contamination by mycotoxins.

⁽⁹⁾ The limit for Avilamicin refers to the marker residue Dichloroisoevernicin Acid.

⁽¹⁰⁾ The Reference Limit for Metamizole refers to the marker residue 4-Methylaminoantipyrine.

⁽¹¹⁾ Reference Limits are expressed in pg WHO-TEQ/g of fat (except for fish, for which it is expressed in pg WHO-TEQ/g of muscle). The concentrations of each congener are multiplied by the respective World Health Organization Toxic Equivalent factors and summed to determine the Toxic Equivalent (WHO-TEQ) value in the form of dioxins and furans (PCDD/PCDF- WHO-TEQ) and the total of dioxins, furans, and PCBs (PCDD/PCDF/PCB- WHO-TEQ), according to the values in the table below:

WHO-TEQ values for Dioxins, Furans, and PCBs similar to Dioxins		
Group	Analyte	WHO-TEQ Value
Polychlorinated Dibenzo-p-(PCDD)	2,3,7,8-TCDD (TCDD)	1
	1,2,3,7,8-PeCDD (PeCDD)	1
	1,2,3,4,7,8-HxCDD (HxCDD1)	0,1
	1,2,3,6,7,8-HxCDD (HxCDD2)	0,1
	1,2,3,7,8,9-HxCDD (HxCDD3)	0,1
	1,2,3,4,6,7,8-HpCDD (HpCDD1)	0,01
	OCDD	0,0003
Polychlorinated Dibenzofurans (PCDF)	2,3,7,8-TCDF (TCDF)	0,1
	1,2,3,7,8-PeCDF (PeCDF)	0,03
	2,3,4,7,8-PeCDF (PeCDF2)	0,3
	1,2,3,4,7,8-HxCDF (HxCDF1)	0,1
	1,2,3,6,7,8-HxCDF (HxCDF2)	0,1
	1,2,3,7,8,9-HxCDF (HxCDF3)	0,1
	2,3,4,6,7,8-HxCDF (HxCDF4)	0,1
	1,2,3,4,6,7,8-HpCDF (HpCDF1)	0,01
	1,2,3,4,7,8,9-HpCDF (HpCDF2)	0,01
	OCDF	0,0003
Polychlorinated biphenyls (PCBs) Similar to dioxins	PCB 81	0,0003
	PCB 77	0,0001
	PCB 123	0,00003
	PCB 118	0,00003
	PCB 114	0,00003
	PCB 105	0,00003
	PCB 126	0,1
	PCB 167	0,00003
	PCB 156	0,00003
	PCB 157	0,00003
	PCB 169	0,03
PCB 189	0,00003	
Reference: WHO-TEQ for the evaluation of risks to humans based on the conclusions of the expert meeting of the WHO International Program on Chemical Safety (IPCS) held in Geneva in June 2005 [Martin van den Berg et al., <i>The 2005 World Health Organization Re- evaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds</i> , Toxicological Sciences 93(2), 223–241 (2006)].		

⁽¹²⁾ Higher concentration limits: the WHO-TEQ of congeners with values lower than the respective quantification limit of the method is calculated considering a concentration equal to this limit.

⁽¹³⁾ Mercury limits: fish in general (0.5 mg/kg), except predatory species (1.0 mg/kg).

⁽¹⁴⁾ Cadmium limits: fish in general (0.5 mg/kg, except: i. Bonito, Carapeba (Striped Mojarra), Eel, Mulllet, Jack (Jurel), Bream (Imperador), Mackeral (Cavala), Sardine, Tuna, and Sole (0.10 mg/kg); ii. Frigate Mackeral (Melva) (0.20 mg/kg); iii. Anchovy and Sword Fish (0.30 mg/kg).

⁽¹⁵⁾ For Malachite Green the MRPL indicated refers to the sum of Malachite Green and Leuco Malachite Green. For Crystal Violet the MRPL indicated refers to the sum of Crystal Violet and Leuco Crystal Violet.

⁽¹⁶⁾ Tissues analyzed and limits (ug/kg) applicable to Organophosphates, Pyrethroids, Pyrazoles, Neonicotinoids, Carbamates, Benzimidazoles, and others:

Substance	Bovine (Matrix: muscle)	Equine (Matrix: muscle)	Poultry (Matrix: muscle)	Porcine (Matrix: muscle)	Milk	Honey	Farm-Raised Fish (Matrix: muscle)	Eggs
Acephate	50	50	10	50	20	20	10	10
Acetamiprid	500	500	10	500	200	50	10	10
Alachlor	10	10	10	10	10	10	10	10
Aldicarb	Sum of 10	Sum of 10	Sum of 10	Sum of 10	Sum of 10	Sum of 10	Sum of 10	Sum of 10
Aldicarb sulfone								
Allethrin	10	10	10	10	10	10	10	10
Amitraz	--	--	--	--	10	--	--	--
Azinphos-ethyl	10	10	10	10	10	10	10	10
Azinphos-methyl	10	10	10	10	10	10	10	10
Azoxystrobin	10	10	10	10	10	50	10	10
Barban	10	10	10	10	10	50	10	10
Benfuracarb	10	10	10	10	10	10	10	10
Bentazon	20	50	20	50	10	50	10	10
Bifenthrin	3000	3000	10	3000	200	10	10	10
Bitertanol	50	50	10	50	50	50	10	10
Boscalid	10	10	20	10	100	50	10	20
Bromopropylate	10	10	10	10	10	10	10	10
Bromuconazole	50	50	50	50	50	10	10	50
Bupiramate	50	50	50	50	50	50	10	50
Carbaryl	50	50	50	50	50	50	10	50
Carbendazim	50	50	50	50	50	1000	10	50
Carbophenothion	10	10	10	10	10	10	10	10
Carbofuran	50	50	10	50	1	50	10	10
Carbosulfan	50	50	50	50	30	10	10	50
Cyazofamid	10	10	10	10	10	50	10	10
Cyfluthrin	50	50	50	50	10	50	10	10
Cimoxanil	50	50	50	50	50	50	10	50
Cypermethrin	2000	2000	100	2000	50	50	10	10
Cyproconazole	50	50	10	50	10	50	10	10
Chlorbromuron	10	10	10	10	10	10	10	10
Clorfenvinphos	10	10	10	10	10	10	10	10
Chlorimuron	10	10	10	10	10	10	10	10
Chlorpyrifos	500	250	50	50	20	50	10	10
Chlorpyrifos-methyl	50	50	50	50	10	10	10	10
Cresoxim-methyl	10	50	50	50	10	50	10	50
Deltamethrin	50	50	10	50	50	30	10	20
Desmedifan	50	50	50	50	50	50	10	50
Diazinon	20	10	20	20	20	10	10	20
Dichlorvos	10	10	10	10	10	10	10	10
Dicrotophos	10	10	10	10	10	10	10	10
Difenoconazole	50	50	10	50	20	50	10	30
Diflubenzuron	100	100	50	100	20	50	10	50
Dimethoate	50	50	50	50	50	10	10	50
Dimethomorph	10	10	10	10	10	50	10	10
Dimoxystrobin	10	30	20	30	10	50	10	20

Disulfoton	Sum of 10	Sum of 10	Sum of 20	Sum of 10	Sum of 10	Sum of 10	Sum of 10	Sum of 20
Disulfoton sulfone								
Disulfoton sulfoxide								
Diuron	50	50	50	50	50	50	10	50
Dodemorph	10	10	10	10	10	10	10	10
Epoxiconazole	2	10	20	10	2	50	10	20
Ethiofencarb sulfone	10	10	10	10	10	10	10	10
Ethiofencarb sulfoxide	10	10	10	10	10	10	10	10
Ethion	10	10	10	10	10	10	10	10
Ethiprole	h10	10	10	10	10	10	10	10
Ethirimol	50	50	50	50	50	50	10	50
Etofenprox	50	50	10	50	20	50	10	10
Ethoprophos	10	10	10	10	10	10	10	10
Ethrinphos	10	10	10	10	10	10	10	10
Fempropathrin	10	10	50	10	10	10	10	10
Fenamiphos	Sum of 10	Sum of 10	Sum of 10	Sum of 10	Sum of 5	Sum of 10	Sum of 10	Sum of 10
Fenamiphos sulfone								
Fenamiphos sulfoxide								
Fenarimol	20	20	20	20	20	50	10	20
Fenitrotion	50	50	50	50	10	10	10	50
Fenobucarb	10	10	10	10	10	10	10	10
Fenoxycarb	50	50	50	50	50	50	10	50
Fenpyroximate	--	--	--	--	10	--	--	--
Fenthion sulfone	Sum of 10	Sum of 50	Sum of 10	Sum of 50	Sum of 10	Sum of 10	Sum of 10	Sum of 10
Fenthion sulfoxide								
Fenthion								
Phenthoate	10	10	10	10	10	10	10	10
Fenvalerate	25	20	20	20	100	50	10	20
Fipronil	5	5	10	5	20	5	10	20
Fluazifop butyl	100	50	50	50	100	50	10	50
Flucythrinate	10	10	10	10	10	50	10	10
Fludioxonil	10	10	10	10	10	50	10	10
Flufenacet	10	10	50	10	10	50	10	50
Flufenoxuron	50	50	50	50	10	10	10	50
Flusilazole	20	20	200	20	50	50	10	100
Flutriafol	10	50	10	10	10	50	10	10
Foramsulfuron	10	10	10	10	10	50	10	10
Phorate	Sum of 20	Sum of 20	Sum of 50	Sum of 20	Sum of 10	Sum of 10	Sum of 10	Sum of 50
Phorate sulfone								
Phorate sulfoxide								
Phosalone	10	10	10	10	10	10	10	10
Phosphamidon	10	10	10	10	10	10	10	10
Phosmet	100	100	50	100	20	50	10	50
Fosthiazate	10	10	10	10	10	10	10	10
Furathiocarb	300	300	300	300	50	10	10	50
Hexaconazole	10	10	10	10	10	10	10	10
Hexythiazox	50	50	50	50	50	20	10	50
Imazalil	50	50	50	50	50	50	10	50
Imibenconazole	10	10	10	10	10	10	10	10
Imidacloprid	100	100	20	100	100	50	10	20

Iprobenfos	10	10	10	10	10	10	10	10
Iprodione	100	500	100	100	500	50	10	100
Iprovalicarb	10	50	50	50	10	50	10	50
Isocarbophos	10	10	10	10	10	10	10	10
Isoproturon	10	10	10	10	10	50	10	10
Lambda cyhalothrin	500	500	20	500	200	50	10	20
Linuron	500	500	50	500	50	10	10	50
Malaoxon	Sum of 20	Sum of 20	Sum of 20	Sum of 20	Sum of 20	Sum of 50	Sum of 10	Sum of 20
Malathion								
Mephosfolan	10	10	10	10	10	10	10	10
Metalaxyl	10	10	10	10	10	10	10	10
Methamidophos	10	10	10	10	20	10	10	10
Metazachlor	10	10	50	10	10	50	10	50
Metconazole	20	20	20	20	20	50	10	20
Methidathion	20	20	20	20	1	20	10	20
Methiocarb sulfoxide	Sum of 50	Sum of 50	Sum of 50	Sum of 50	Sum of 50	Sum of 50	Sum of 10	Sum of 50
Methiocarb sulfone								
Methomyl	Sum of 20	Sum of 20	Sum of 20	Sum of 20	Sum of 20	Sum of 20	Sum of 10	Sum of 20
Thiodicarb								
Mesotrione	--	--	--	--	--	--	--	10
Methoxyfenozide	10	10	10	10	50	50	10	10
Metoxuron	10	10	10	10	10	10	10	10
Metsulfuron methyl	10	10	10	10	10	50	10	10
Mevinphos	10	10	10	10	10	10	10	10
Myclobutanil	10	10	10	10	10	50	10	10
Monocrotophos	10	10	10	10	10	10	10	10
Monuron	10	10	10	10	10	10	10	10
Nitenpyram	10	10	10	10	10	10	10	10
Nuarimol	10	10	10	10	10	10	10	10
Omethoate	10	10	10	10	10	10	10	10
Oxamyl	20	20	20	20	20	50	10	20
Oxycarboxin	10	10	10	10	10	10	10	10
Oxyfluorfen	50	50	50	50	50	10	10	50
Paclobutrazol	20	20	20	20	20	10	10	20
Paraoxon-ethyl	10	10	10	10	10	10	10	10
Paraoxon-methyl	10	10	10	10	10	10	10	10
Parathion-ethyl	10	10	10	10	10	10	10	10
Pencycuron	50	50	50	50	50	10	10	50
Penconazole	50	50	50	50	10	50	10	50
Permethrin	50	400	100	50	50	880	10	100
Pyraclofos	10	10	10	10	10	10	10	10
Pyraclostrobin	50	50	50	50	30	50	10	50
Pyrazophos	10	10	10	10	10	50	10	10
Pyridaben	20	20	20	20	20	20	10	20
Pyriphenox	10	10	10	10	10	10	10	10
Pirimicarb	10	10	10	10	10	50	10	10
Pirimiphos-ethyl	10	10	10	10	10	10	10	10
Pirimiphos-methyl	10	10	10	10	10	50	10	10
Pyriproxyfen	50	50	50	50	50	50	10	50
Prochloraz	100	100	50	100	50		10	100

Profenofos	50	50	50	50	10	50	10	20
Promecarb	10	10	10	10	10	10	10	10
Permethrin	50	50	10	50	50	10	10	10
Propamocarb	10	10	10	10	10	50	10	10
Propanil	10	10	10	10	10	50	10	10
Propargite	10	10	10	10	100	50	10	100
Propiconazole	50	50	10	50	10	50	10	10
Propoxur	50	50	50	50	50	10	10	50
Prosulfuron	20	10	20	10	20	50	10	20
Simazine	10	10	10	10	10	10	10	10
Tebuconazole	50	50	50	50	10	50	10	50
Tebuconazole	50	50	50	50	50	50	10	50
Tepp	10	10	10	10	10	10	10	10
Terbufos	50	50	50	50	10	10	10	10
Thiabendazole	100	400	50	100	200	10	10	100
Thiacloprid	100	100	20	100	50	200	10	20
Thiamethoxam	20	20	10	20	50	50	10	10
Thifensulfuron-methyl	10	10	10	10	10	50	10	10
Thiobencarbe	10	10	10	10	10	50	10	10
Thiofanate-methyl	50	50	50	50	50	1000	10	50
Tolyfluanid	10	10	10	10	10	50	10	10
Triadimefon	Sum of 20	Sum of 20	Sum of 10	Sum of 20	Sum of 10	Sum of 100	10	Sum of 10
Triadimenol							10	
Triasulfuron	50	50	50	50	50	50	10	50
Triazophos	10	10	10	10	10	10	10	10
Tricyclazole	50	50	50	50	50	10	10	50
Trichlorfon	10	10	10	10	10	10	10	10
Tridemorph	10	10	10	10	10	10	10	10
Trifloxystrobin	40	40	40	40	20	50	10	40
Trifloxysulfuron	10	10	10	10	10	10	10	10
Triflumuron	10	10	10	10	10	10	10	10
Triforine	10	10	10	10	10	10	10	50
Trinexapac-ethyl	10	10	10	10	5	50	10	10