NORMATIVE INSTRUCTION 5 OF APRIL 23, 2019 (Published in the Official Gazette of the Federal Government (DOU) on 25/04/2019)

THE SECRETARY FOR ANIMAL AND PLANT HEALTH OF THE MINISTRY OF AGRICULTURE, LIVESTOCK AND FOOD SUPPLY, using the power attributed to him by Articles 21 and 63, of Appendix I, of Decree 9,667, of January 2, 2019, taking into consideration what is set forth in Ordinance (Portaria) 51, of February 6, 1986, Ordinance (Portaria) 527 of August 15, 1995, SDA Normative Instruction 42 of December 20, 1999, Decree 9,013 of March 29, 2017; and what is set forth in Case File 21000.022222/2019-71, resolves:

Article 1. To approve the publication of the sampling plan and the reference limits for the National Plan for the Control of Residues and Contaminants in Animal Products - PNCRC of 2019, for the chains of beef, pork, goat, mutton, equine, rabbit, poultry, ostrich meat, and milk, fisheries, honey and eggs.

Paragraph 1. The sampling plan and limits of reference stated in the heading hereof will be published in the Ministry of Agriculture, Livestock and Food Supply.

Article 2. The tests for the Monitoring and Exploratory Subprogram of the PNCRC described in Article 1 herein are be performed in the official and authorized laboratories of the National Network of Agricultural Laboratories of the Unified System for Animal and Plant Health, as established by Normative Instruction 57 of December 11, 2013.

Article. 3 This Normative Instruction shall come into force as of the date of its publication.

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TABLE 1 – SAMPLING PLAN FOR THE MEAT CHAINS – PNCRC 2019									
Substance Class Matrix Analyzed Substance			REFERENCE LIMITS (µg/Kg)						Nº of samples
			Bovines	Equines	Pigs	Poultry	Ostrich/ Rabbit	Caprine/ Ovine	
Antimicrobials	Lincomycin	Kidney	1500	1500	1500	500	--	--	Bovine - 600 Poultry – 600 Swine – 600 Equine - 15
	Erythromycin		200	200	200	100	--	--	
	Tylosin		100	100	100	100	--	--	
	Neomycin		10000	5000	10000	10000	--	--	
	Streptomycin		Sum equals 1000	Sum equals 500	Sum equals 1000	Sum equals 1000	--	--	
	Dihydrostreptomycin						--	--	
	Spectinomycin		5000	5000	5000	5000	--	--	
	Kanamycin		2500	2500	2500	2500	--	--	
	Apramycin		20000	2000	2000	1000	--	--	
	Gentamycin		5000	500	5000	500	--	--	
	Tobramycin		500	500	500	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 equals 1200	Sum equals 1200	Sum equals 1200	Sum equals 1200	--	--	
	Tetracycline						--	--	
	Oxytetracycline						--	--	
	Doxycycline		600	600	600	600	--	--	
	Amoxicillin		50	50	50	50	--	--	
	Hygromycin		500	500	500	500	--	--	
	Cloxacillin		--	--	300	--	--	--	
	Dicloxacillin		--	--	300	--	--	--	
	Dapsone		--	--	5 (1)	--	--	--	
	Rifampicin		--	--	10	--	--	--	
	Nitrofurazone/ - SEM	Muscle	1 (1)	1 (1)	1 (1)	1 (1)	1 (1)	--	Bovine - 60 Poultry - 300 Ostrich - 10 Swine - 200 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	100	200	100	--	--	Bovine - 100 Poultry - 200
	Chloramphenicol		0.30 (1)	0.30 (1)	0.30 (1)	0.30 (1)	0.30 (1)	--	Swine – 150 Ostrich - 10
	Thiamphenicol		50	50	50	50	--	--	Equine - 8
	Chlortetracycline	Muscle	Sum equals 100	Sum equals 100	Sum equals 100	Sum equals 100	--	--	Bovine 600 Poultry – 600
	Tetracycline						--	--	
	Oxytetracycline						--	--	Swine – 600
	Doxycycline		100	100	100	100	--	--	Equine - 8
	Sulfachlorpyridazine		Sum equals 100	Sum equals 100	Sum equals 100	Sum equals 100	--	--	
	Sulfadoxine						--	--	
	Sulfamerazine						--	--	
	Sulfadiazine						--	--	
	Sulfamethoxazole						--	--	
	Sulfathiazole						--	--	
	Sulfamethazine						--	--	
	Sulfaquinoxaline						--	--	
	Sulfadimethoxine						--	--	
	Sulfisoxazol						--	--	
	Oxolinic acid		100	100	100	100	--	--	
	Nalidixic Acid		20	20	20	20	--	--	
	Flumequine		500	200	500	500	--	--	
	Enrofloxacin		Sum equals 100	Sum equals 100	Sum equals 100	Sum equals 100	--	--	
	Ciprofloxacin						--	--	
	Sarafloxacin		20	10	10	10	--	--	
	Difloxacin		400	300	400	300	--	--	
	Danofloxacin		200	100	100	200	--	--	
	Spiramycin		200	10	200	200	--	--	
	Erythromycin		100	100	100	100	--	--	
	Azithromycin		50	50	50	50	--	--	
	Tylosin		100	100	100	100	--	--	
	Lincomycin		100	100	200	200	--	--	
	Clindamycin		50	50	50	50	--	--	
	Norfloxacin		20	20	20	20	--	--	
	Trimethroprim		50	100	50	50	--	--	
	Tilmicosin		100	50	100	150	--	--	
Sedatives	Acepromazin		10	10	10	--	--	--	Swine – 60
	Azaperol		100	100	100	--	--	--	Equine - 15
	Azaperone					--	--	--	Bovine - 60
	Carazolol		10	10	25	--	--	--	

	Chlorpromazine		100	10	100	--	--	--	
Parasiticides	Abamectin (2)	Liver	100	10	10	10	--	25	Bovine - 400 Poultry – 90 Swine – 300 Equine - 25 Ovines – 10
	Doramectin		100	10	100	10	--	100	
	Ivermectin (3)		100	100	15	10	--	15	
	Eprinomectin (4)		2000	10	10	10	--	1500	
	Moxidectin		100	100	20	20	--	100	
	Emamectin		--	--	--	--	--	50	
	Monensin	Liver	100	10	--	10	--	--	Bovine - 200 Poultry - 90
	Fipronil		100	10	--	20	--	--	
	Sisapronyl		100	--	--	--	--	--	
	Abamectin	Muscle	20	10	20	10	--	--	Bovine - 120 Poultry – 90 Swine – 60 Equine - 8
	Doramectin		10	40	10	10	--	--	
	Moxidectin		20	50	10	10	--	--	
	Ivermectin		30	30	30	10	--	--	
	Eprinomectin		100	100	100	10	--	--	
	Dimetridazole		3 (1)	3 (1)	3 (1)	3 (1)	--	--	
	Ronidazole		3 (1)	3 (1)	3 (1)	3 (1)	--	--	
	Metronidazole		3 (1)	3 (1)	3 (1)	3 (1)	--	--	
	Ipronidazole		3 (1)	3 (1)	3 (1)	3 (1)	--	--	
	Albendazole		100	100	100	100	--	--	
	Fenbendazole		100 (5)	100 (5)	100 (5)	100 (5)	--	--	
	Oxifendazole						--	--	
	Febantel						--	--	
	Flubendazole		10	10	50	200	--	--	
	Thiabendazole		100	100	100	100	--	--	
	Triclabendazole		250	250	500	250	--	--	
	Closantel		1000	2000	100	100	--	--	
	Levamisole		10	10	10	10	--	--	
	Mebendazole		10	60	10	10	--	--	
Anticoccidials	Salinomycin	Muscle	--	--	100	100	--	--	Poultry – 600 Swine - 90
	Narasin		--	--	15	15	--	--	
	Lasalocid		--	--	50	400	--	--	
	Monensin		--	--	10	10	--	--	
	Maduramicin		--	--	15	240	--	--	
	Semduramicin		--	--	15	50	--	--	
	Trimethroprim		--	--	50	50	--	--	
	Amprolium		--	--	15	500	--	--	
	Clopidol		--	--	200	5000	--	--	
	Toltrazutil		--	--	100	500	--	--	
	Diclazuril		--	--	50	500	--	--	

	Diaveridine		--	--	15	50	--	--	
	Robenidine		--	--	15	100	--	--	
	Nicarbazin		--	--	50	200	--	--	
	Ethopabate		--	--	15	500	--	--	
	Decoquinate		--	--	20	1000	--	--	
	Avilamycin (9)		--	--	200	200	--	--	
Mycotoxins	Aflatoxin B1	Liver	0.5	0.5	0.5	0.5	--	--	Poultry – 20 Swine – 20
	Ochratoxin A		0.5	0.5	0.5	0.5	--	--	Bovine - 20 Equine - 5
Inorganic contaminants	Arsenic (As)	Muscle	--	(6)	--	--	--	--	Bovine - 200 Poultry – 200 Swine – 150 Ostrich - 5 Caprines - 4 Ovines – 4 Equine - 25 Rabbits - 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	--	--	Bovine - 30 Swine - 30 Poultry - 30
Anabolic Substances	Methenolone	Urine	2 (1)	2 (1)	2 (1)	--	--	--	Slaughtered Bovines – 600 Live Bovines – 300 Swine – 60 Equine - 8
	Methylboldenone		2 (1)	2 (1)	2 (1)	--	--	--	
	Ethisterone		2 (1)	2 (1)	2 (1)	--	--	--	
	Norethandrolone		2 (1)	2 (1)	2 (1)	--	--	--	
	16-β-Stanozolol		2 (1)	2 (1)	2 (1)	--	--	--	
	Diethylstilbestrol (DES)		1 (1)	1 (1)	1 (1)	--	--	--	
	Zeranol (8)		2 (1)	2 (1)	2 (1)	--	--	--	
	Hexestrol		2 (1)	2 (1)	2 (1)	--	--	--	
	Dienestrol		2 (1)	2 (1)	2 (1)	--	--	--	
	17-α-Trenbolone		2 (1)	2 (1)	2 (1)	--	--	--	
	Betaboldenone		1(1)	1 (1)	1 (1)	--	--	--	
	Diethylstilbestrol	Liver	--	--	--	2 (1)	--	--	Poultry - 30
	Zeranol (8)		--	--	--	2 (1)	--	--	
	Zearalenone		--	--	--	(8)	--	--	
	2-Thiouracil	Urine	10 (1)	10 (1)	10 (1)	--	--	--	Bovine - 85 Swine – 60
	6-Methyl, 2-Thiouracil		10 (1)	10 (1)	10 (1)	--	--	--	

	6-Propyl, 2-Thiouracil		10 (1)	10 (1)	10 (1)	--	--	--	Equine - 5
	Tapazole		10 (1)	10 (1)	10 (1)	--	--	--	
Beta-agonists	Salbutamol	Liver	--	5 (1)	--	5 (1)	--	--	Poultry – 75 Equine - 8
	Clenbuterol		--	0.5	--	0.2 (1)	--	--	
	Cimaterol		--	0.5 (1)	--	0.5 (1)	--	--	
	Zilpaterol		--	5 (1)	--	5 (1)	--	--	
	Ractopamine		--	1 (1)	--	1 (1)	--	--	
	Salbutamol	Urine	1 (1)	--	1 (1)	--	--	--	Slaughtered Bovines – 300 Live Bovines – 300 Swine 90
	Clenbuterol		0.25 (1)	--	0.25 (1)	--	--	--	
	Cimaterol		0.5 (1)	--	0.5 (1)	--	--	--	
	Zilpaterol		1 (1)	--	1 (1)	--	--	--	
	Ractopamine		0.25 (1)	--	--	--	--	--	
	Ractopamine	Muscle	0.1 (1)	--	10	--	--	--	Bovine - 150 Swine - 150
Non-Hormonal Anti-Inflammatory Drugs	Naproxene	Muscle	20	20	20	--	--	--	Bovine - 100 Equine - 15 Swine – 150
	Mefenamic acid		20	20	20	--	--	--	
	Tolfenamic acid		50	20	50	--	--	--	
	Carprofen		500	500	20	--	--	--	
	Flunixin		20	10	50	--	--	--	
	Nimesulide		20	20	20	--	--	--	
	Fenylbutazone		10 (1)	10 (1)	20 (1)	--	--	--	
	Meloxican		20	20	20	--	--	--	
	Metamizole (10)		100	100	100	--	--	--	
	Propifenazone		20	20	20	--	--	--	
	Ketoprofen		50	20	20	--	--	--	
	Diclofenac		5	5	5	--	--	--	
	Indometacin		20	10	20	--	--	--	
	Piroxican		20	10	20	--	--	--	
Steroidal Anti-Inflammatory Drugs	Dexamethasone	Liver	2	2	2	--	--	--	Bovine - 60 Equine - 8 Swine - 60
	Prednisolone		10	10	10	--	--	--	
	Prednisone		10	10	10	--	--	--	
	Betamethasone		2	2	2	--	--	--	
Organochlorine Compounds and PCBs	Aldrin	Fat	100	100	100	100	--	--	Bovine - 30 Poultry – 30 Swine – 30 Equine - 5
	Alpha-HCH		200	200	200	200	--	--	
	HCB		200	200	200	200	--	--	
	Dieldrin		100	100	100	100	--	--	
	Heptachlor		Sum equals 200	Sum equals 200	Sum equals 200	Sum equals 200	--	--	
	Heptachlor epoxide						--	--	

	Cis Chlordane		Sum equals 50	Sum equals 50	Sum equals 50	Sum equals 50	--	--	
	Trans-Chlordane						--	--	
	pp'-DDT		Sum equals 1000	Sum equals 1000	Sum equals 1000	Sum equals 1000	--	--	
	pp'-DDE						--	--	
	op'-DDT						--	--	
	pp'-DDD						--	--	
	PCB 101		Sum equals 200	Sum equals 200	Sum equals 200	Sum equals 200	--	--	
	PCB 118						--	--	
	PCB 138						--	--	
	PCB 153						--	--	
	PCB 180						--	--	
	Gamma-HCH		100	--	---	--	--	--	
	Dodecachlor		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 – 300 Bovine -40 Swine – 150
Organophosphorous compounds, Pyrethroids, Pirazole, Neonicotinoids, Carbamates and Benzimidazole	(18)	Muscle	(18)	(18)	(18)	(18)	--	--	Bovine - 140 Poultry - 45 Swine - 45 Equine - 8

TABLE 2 – SAMPLING PLAN FOR MILK – PNCRC 2019			
Substance Class	Substance	REFERENCE LIMIT (µg/L)	Nº of samples
Mycotoxins	Aflatoxin M1	0.5	60
Parasiticides	Abamectin(3)	10	300
	Doramectin	15	
	Eprinomectin	20	
	Ivermectin(4)	10	
	Moxidectin	10	
	Albendazole	100	
	Trimethroprim	50	
Antimicrobials	Chlortetracycline	Sum equals 100	600
	Oxytetracycline		
	Tetracycline		
	Doxycycline		
	Sulfathiazole	Sum equals 100	
	Sulfamethazine		
	Sulfadimethoxine		
	Sulfachlorpyridazine		
	Sulfadiazine		
	Sulfadoxine		
	Sulfamerazine		
	Sulfamethoxazole		
	Sulfaquinoxaline		
	Sufisoxasol		
	Oxolinic acid	20	
	Nalidixic Acid	20	
	Flumequine	50	
	Ceftiofur	100	
	Cefquinome	20	
	Cefhalonium	20	
	Cephapirin	60	
	Cephalexin	100	
	Cefoperazone	50	
	Erythromycin	40	
	Spiramycin	200	
	Lincomycin	150	
	Tylosin	100	
	Clindamycin	10	

	Tilmicosin	50	
	Cloxacillin	30	
	Dicloxacillin	30	
	Nafcilin	30	
	Ampicillin	4	
	Amoxicillin	4	
	Trimethroprim	50	
	Bromhexine	50	
	Oxacillin	30	
	Penicillin G	4	
	Penicillin V	4	
	Ciprofloxacin	Sum equals 100	
	Enrofloxacin		
	Sarafloxacin	20	
	Danofloxacin	30	
	Difloxacin	100	
	Norfloxacin	10	
	Chloramphenicol	0.30 (1)	
	Thiamphenicol	10	
	Florfenicol	10	
	Azithromycin	25	
Non-Hormonal Anti-Inflammatory Drugs	Naproxene	5 (1)	60
	Mefenamic acid	5 (1)	
	Tolfenamic acid	50	
	5-Hidroxyflunixin	40	
	Fenylbutazone	5(1)	
	Meloxican	15	
	Diclofenac	0.1	
	Piroxican	10	
Inorganic contaminants	Arsenic	50	150
	Cadmium	50	
	Lead	20	
Dioxins, Furans and PCBs	PCDD	PCDD/F – 2,5 pg/g (11)(12) PCDD/F-PCB – 5,5 pg/g (11)(12)	40
	PCDF		
	PCBs		
Organophosphorous compounds, Pyrethroids, Pirazole, Neonicotinoids, Carbamates, Benzimidazole and Others	(18)	(18)	150

TABLE 3 – SAMPLING PLAN FOR HONEY – PNCRC 2019			
Substance Class	Substance	REFERENCE LIMIT (µg/L)	Nº of samples
Antimicrobials	Chlortetracycline	Sum equals 20	60
	Oxytetracycline		
	Tetracycline		
	Doxycycline		
	Sulfathiazole	Sum equals 50	
	Sulfamethazine		
	Sulfadimethoxine		
	Tylosin	10	
	Erythromycin	10	
	Nitrofurazone/ - SEM	1 (1)	60
	Furazolidone - AOZ	1 (1)	
	Furaltadone - AMOZ	1 (1)	
	Nitrofurantoin - AHD	1 (1)	
	Chloramphenicol	0.30 (1)	
Halogenated and Organochlorine Compounds, Carbamates, Pyrethroids, Organophosphorous compounds	Aldrin	10	60
	Alpha-Endosulfan	10	
	4,4-DDE	10	
	4,4-DDD	10	
	4,4 DDT	10	
	Dodecachlor	10	
	Endrin	10	
	Tetradifon	20	
	Vinclozolin	20	
	Heptachlor	10	
	Alpha-HCH	10	
	Beta-HCH	10	
	Gamma-HCH	10	
	Parathion	20	
Inorganic contaminants	Arsenic (As)	300	60
	Cadmium (Cd)	100	
	Lead (Pb)	300	
Organophosphorous compounds, Pyrethroids, Pirazole, Neonicotinoids, Carbamates and Benzimidazole	(18)	(18)	45

TABLE 4 – SAMPLING PLAN FOR FISH – PNCRC 2019							
Substance Class	Substance	Tested Matrix	REFERENCE LIMIT (µg/L)				Nº of samples
			Wild Fish	Farmed Fish	Farmed Shrimp	Wild Crustaceans and Molluscs (13)	
Inorganic contaminants	Mercury,	Muscle	(14)	(14)	500	500	Wild Fish - 60 (6) Farmed Fish – 60 Shrimp - 60 Wild Crustaceans and Molluscs - 20
	Arsenic (6),		1000	1000	1000	1000	
	Cadmium,		(15)	(15)	500	(15)	
	Lead		300	300	500	(16)	
Antimicrobials	Nitrofurazone - SEM	Muscle	--	1 (1)	1 (1)	--	Aquiculture Fish - 60 Shrimp - 60
	Furazolidona - AOZ		--	1 (1)	1 (1)	--	
	Furaltadone - AMOZ		--	1 (1)	1 (1)	--	
	Nitrofurantoin - AHD		--	1 (1)	1 (1)	--	
	Oxytetracycline	Muscle	--	Sum equals 200	100	--	Aquiculture Fish - 180 Shrimp - 60
	Chlortetracycline		--		100	--	
	Tetracycline		--		100	--	
	Doxycycline		--	100	100	--	
	Sulfachlorpyridazine		--	Sum equals 100	Sum equals 100	--	
	Sulfadoxine		--			--	
	Sulfamerazine		--			--	
	Sulfadiazine		--			--	
	Sulfamethoxazole		--			--	
	Sulfathiazole		--			--	
	Sulfamethazine		--			--	
	Sulfaquinoxaline		--			--	
	Sulfadimethoxine		--			--	
	Sulfisoxazol		--			--	
	Enrofloxacin		--	Sum equals 100	--	--	
	Ciprofloxacin		--		--	--	
	Sarafloxacin		--	30	--	--	
	Difloxacin		--	300	--	--	
	Danofloxacin		--	100	--	--	
	Nalidixic Acid		--	20	--	--	
	Oxolinic acid		--	100	--	--	
	Flumequine		--	600	--	--	
	Chloramphenicol		--	0.30 (1)	0.30 (1)	--	
	Thiamphenicol		--	50	50	--	
	Florfenicol		--	1000	1000	--	
Parasiticides	Dimetridazole	Muscle	--	3 (1)	3 (1)	--	Aquiculture Fish - 30

	Ronidazole		--	3 (1)	3 (1)	--	Farmed Shrimp - 15
	Metronidazole		--	3 (1)	3 (1)	--	
	Ipronidazole		--	3 (1)	3 (1)	--	
Anabolic Substances	Diethylstilbestrol (DES)		--	1 (1)	--	--	Aquiculture Fish - 45
	Hexestrol		--	1 (1)			
	Dienestrol		--	1 (1)			
	17-Beta-estradiol		--	1 (1)	--	--	
	17-Alfa-Methyltestosterone		--	1 (1)	--	--	
	Zeranol (8)		--	1 (1)	--	--	
	Zearalenone (8)		--	(8)	--	--	
Colorings	Malachite Green(17)	Muscle	--	2 (1)	2 (1)	--	Aquiculture Fish - 60 Shrimp - 60
	Crystal Violet(17)		--	2 (1)	2 (1)	--	
Organochlorine Pesticides	Alpha-HCH	Muscle	--	15	15	--	Aquiculture Fish - 30
	Beta-HCH		--	15	15	--	
	Delta-HCH		--	15	15	--	
	Dodecachlor		--	15	15	--	
	Aldrin		--	15	15	--	
	Endrin		--	15	15	--	
	Heptachlor		--	15	15	--	
Dioxins, Furans and PCBs	PCDDs, PCDFs and PCBs	Muscle	PCDD/F – 3.5 pg/g (11)(12) PCDD/F-PCB – 6.5 pg/g (11)(12)	PCDD/F – 3.5 pg/g (11)(12) PCDD/F-PCB – 6.5 pg/g (11)(12)	--	PCDD/F – 3.5 pg/g (11)(12) PCDD/F-PCB – 6.5 pg/g (11)(12)	P. Capture - 30 Aquiculture Fish - 30 Molluscs - 30
Organophosphorous compounds, Pyrethroids, Pirazole, Neonicotinoids, Carbamates and Benzimidazole	(18)	Muscle	--	(18)	--	--	Aquiculture Fish - 60

TABLE 5 – SAMPLING PLAN FOR EGGS – PNCRC 2019		
Substance	REFERENCE LIMIT (µg/L)	Nº of samples
Nitrofurazone/ - SEM	1 (1)	60
Furazolidone - AOZ	1 (1)	
Furaltadone - AMOZ	1 (1)	
Nitrofurantoin - AHD	1 (1)	
Chloramphenicol	0.30 (1)	
Bacitracin	500	300
Colistin	300	

Gentamycin	10
Amoxicillin	10
Ampicillin	10
Erythromycin	50
Penicillin V	25
Lincomycin	50
Tylosin	300
Tiamulin	1000
Tilmicosin	10
Oxytetracycline	Sum equals 400
Chlortetracycline	
Tetracycline	
Doxycycline	10
Praziquantel	200
Mebendazole	10
Levamisole	10
Oxibendazole	10
Fenbendazole	1300
Albendazole	10
Flubendazole	400
Sulfathiazole	Sum equals 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
Thiamphenicol	10

Florfenicol	10	
Chloramphenicol	0.30 (1)	
Ethopabate	10	
Lasalocid	10	
Monensin	10	
Decoquinate	20	
Nicarbazin	300	
Clopidol	10	
Semduramycin	10	
Trimethroprim	10	
Salinomycin	10	
Diaveridine	10	
Toltrazuril	10	
Robenidine	25	
Amprolium	10	
Narasin	10	
Diclazuril	10	
Maduramicin	12	
Dimetridazole	3 (1)	60
Ronidazole	3 (1)	
Metronidazole	3 (1)	
Ipronidazole	3 (1)	
Aldrin	100	60
Dieldrin		
Endrin	10	
Heptachlor +	50	
heptachlor epoxide		
Hexachlorobenzene	20	
Gamma-HCH	10	
Alpha-HCH	20	
Delta-HCH	10	
Dodecachlor	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	PCDD/F – 2.5 pg/g of (11)(12) PCDD/F-PCB – 5.0 pg/g of fat (11)(12)	150
Organophosphorous compounds, Pyrethroids, Pirazole, Neonicotinoids, Carbamates and Benzimidazole (18)	(18)	45

(1) Substance which use is prohibited or not authorized for the species/category. The value indicated on the table corresponds to the Minimum Required Performance Limit (MRPL) for the analytical method. The reference limit to take an action is the limit of quantification of the method.

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

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

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

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

(6) Exploratory Subprogram without regulatory measures being taken.

(7) Investigation Subprograms will not be initiated when the result refers to animals whose estimated age is over 6 years.

(8) In case of positive result for Zeranol, a qualitative and quantitative evaluation is performed for α-zearalanol (= zeranol) and β-zearalanol (= taleranol) and metabolites of *Fusarium spp* fungus (α-zearalenol, β-zearalenol and zearalenone). The sample will be considered violated for zeranol if it has a concentration above 2 ppb for this compound, and if it concomitantly has the sum of the concentrations of zeranol plus taleranol above the sum of the concentrations of the zearalenone, alpha-zearalenol and beta-zearalenol mycotoxins.

(9) Limit for Avilamycin refers to the marker residue Dichloroisoeverninic Acid.

(10) Reference Limit for Metamizole refers to the marker residue 4-Methyl amino antipirin.

(11) Reference Limits expressed in pg TEQ-OMS/g of fat (except for fish, which is expressed in pgTEQ-OMS/g of muscle). The concentrations of each congener are multiplied by the respective Toxic Equivalency Factors (TEF-WHO) of the World Health Organization and summed to determine the value of Toxic Equivalent (TEQ-WHO) as dioxins and furanes ((PCDD/PCDF- TEQ-OMS) or the sum of dioxins, furanes and PCBs (PCDD/PCDF/PCB-TEQ-OMS), according to the values in the Table below:

TEF-WHO values for	Dioxins, Furans and PCBs	similar to Dioxins
Group	Analyte	TEF-WHO value
Polychlorinated Dibenzo-p-dioxins (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 (PCB) 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: TEF-WHO for the evaluation of the risks for human beings based on the meeting of experts from the International Programme on Chemical Safety (IPCS) of the WHO held in Geneva in June 2005 [Martin van den Berg et al., *The 2005 World Health Organization Re-evaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds*, Toxicological Sciences 93(2), 223–241 (2006)].

(12) Upper limits of concentration: the TEQ-WHO of congeners whose lower value to the respective limit of quantification of the method is calculated considering the concentration equal to this limit.

(13) To cephalopod molluscs, the limits are applied to the eviscerated animals. For bivalve molluscs, the limit applies to the edible soft tissue; For crustaceans, the limit applies to the edible meat.

(14) Limits for mercury: fish in general (0.50 mg/kg), except predator species (1.00 mg/kg).

(15) Limits for cadmium: i. Fish in general (0.050 mg/kg), except: Bonito, Carapeba, Eel, Mullet, Jurel, Imperador, Mackerel, Sardine, Tuna and Flounder (0.10 mg/kg); Melva (0.20 mg/kg); Anchovy and Sword-Fish (0.30 mg/kg); Cephalopod and bivalve molluscs (2.00 mg/kg) (UE 1.00 mg/kg); Crustaceans (0.50 mg)

(16) Limits for lead: cephalopod molluscs (1.00 mg/kg) (EU 0.3); bivalve molluscs (1.50 mg/kg); crustaceans (0.50 mg)

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

(18) Analyzed matrices and applicable limits (ug/kg); Organophosphorous compounds, Pyrethroids, Pirazole, Neonicotinoids, Carbamates, Benzimidazoles and others.

Substance	Bovines	Equine (Matrix: muscle)	Poultry (Matrix: muscle)	Swine (Matrix: muscle)	Milk	Hone y	Farmed fish	Eggs

	(Matrix: muscle)						(Matrix: muscle)	
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 equals 10	Sum equals 10	Sum equals 10	Sum equals 10	Sum equals 10	Sum equals 10	Sum equals 10	Sum equals 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
Bentazone	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
Cyazofamide	10	10	10	10	10	50	10	10
Cyfluthrin	20	50	50	50	10	50	10	10
Cymoxanil	50	50	50	50	50	50	10	50
Cypermethrin	50	2000 (corrected for fat)	100 (corrected for fat)	2000 (corrected for fat)	100	50	10	10
Cyproconazole	50	50	10	50	10	50	10	10
Chlorbromuron	10	10	10	10	10	10	10	10
Chlorfenvinphos	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
Kresoxim methyl	10	50	50	50	10	50	10	50
Deltamethrin	30	50	30	50	50	30	30	30
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
Dimoxistrobin	10	30	20	30	10	50	10	20
Disulfoton	Sum equals 10	Sum equals 10	Sum equals 20	Sum equals 10	Sum equals 10	Sum equals 10	Sum equals 10	Sum equals 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	10	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
Etrinfos	10	10	10	10	10	10	10	10
Fenpropathrin	10	10	50	10	10	10	10	10
Fenamiphos	Sum equals 10	Sum equals 10	Sum equals 10	Sum equals 10	Sum equals 5	Sum equals 10	Sum equals 10	Sum equals 10
Phenamiphos sulfone								
Phenamiphos sulfoxide								
Fenarimol	20	20	20	20	20	50	10	20
Fenitrothion	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 equals 10	Sum equals 50	Sum equals 10	Sum equals 50	Sum equals 10	Sum equals 10	Sum equals 10	Sum equals 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
Fluazifope butyl	100	50	50	50	100	50	10	50
Flucytrinate	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
Foransulfuron	10	10	10	10	10	50	10	10
Phorate	Sum equals 20	Sum equals 20	Sum equals 50	Sum equals 20	Sum equals 10	Sum equals 10	Sum equals 10	Sum equals 50
Foratosulfon								
Foratosulfoxide								

Phosalone	10	10	10	10	10	10	10	10
Fosfamidone	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
Imibenconazol	10	10	10	10	10	10	10	10
Imidacloprid	100	100	20	100	100	50	10	20
Iprobenphos	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
Lambdacialothrin	500	500	20	500	200	50	10	20
Linuron	500	500	50	500	50	10	10	50
Malaoxon Malathion	Sum equals 20	Sum equals 20	Sum equals 20	Sum equals 20	Sum equals 20	Sum equals 50	Sum equals 10	Sum equals 20
Mefosfolan	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 Methiocarb Sulfone	Sum equals 50	Sum equals 50	Sum equals 50	Sum equals 50	Sum equals 50	Sum equals 50	Sum equals 10	Sum equals 50
Methomyl Thiodicarb	Sum equals 20	Sum equals 20	Sum equals 20	Sum equals 20	Sum equals 20	Sum equals 20	Sum equals 10	Sum equals 20
Mesotrione	--	--	--	--	--	--	--	10
Metoxyphenazide	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
Nitempiram	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
Pencicuron	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
Piraclophos	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
Pyrifenox	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	10	100
Profenophos	50	50	50	50	10	50	10	20
Promecarb	10	10	10	10	10	10	10	10
Prometryn	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
Tebufenpyrade	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
Tiphensulfuron methyl	10	10	10	10	10	50	10	10
Thiobencarbe	10	10	10	10	10	50	10	10
Thiophanate methyl	50	50	50	50	50	1000	10	50
Tolifluanid	10	10	10	10	10	50	10	10
Triadimefon	Sum equals 20	Sum equals 20	Sum equals 10	Sum equals 20	Sum equals 10	Sum equals 100	10	Sum equals 10
Triadimenol							10	
Triassulfuron	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
Trifloxusulfuron	10	10	10	10	10	10	10	10
Triflumuron	10	10	10	10	10	10	10	10
Triforin	10	10	10	10	10	10	10	50
Trinexapaque ethyl	10	10	10	10	5	50	10	10