

NORMATIVE INSTRUCTION 20 OF JULY 26, 2018 (Published in the Official Gazette on: 07/31/2018)

THE SECRETARY OF ANIMAL AND PLANT HEALTH OF THE MINISTRY OF AGRICULTURE, LIVESTOCK AND FOOD SUPPLY, using the power attributed to him by Articles 18 and 53, of Appendix I, of Decree 8,852, enacted September 20 2016; taking into consideration what is set forth in Ordinance (Portaria) 51 of February 6, 1986; in Ordinance (Portaria) 527 enacted August 15, 1995; Normative Instruction 42 of December 20, 1999; and what is set forth in Case File 21000.010168/2018-31, resolves to:

Article 1. To approve the sampling plan and the reference limits for the National Plan for the Control of Residues in Animal Products - PNCRC of 2018, 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 reference limits referred to in the caput shall be published on the website of the Ministry of Agriculture, Livestock and Supply.

Article 2. The tests for the Monitoring and Exploratory Subprogram of the PNCRC described in Article 1 herein are to 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 be in force as of the date of its publication.

Art. 4 The Normative Instruction SDA N° 16, of May 08, 2018, is revoked.

LUIS EDUARDO PACIFICI RANGEL

TABLE 1 – SAMPLING PLAN FOR THE MEAT CHAINS – PNCRC 2018

Substance Class	Substance	Tested Matrix	REFERENCE LIMITS (µg/Kg)						Nº of samples
			Bovine	Equines	Swine	Poultry	Ostrich/Rabbit	Caprine/Ovine	
Antimicrobials	Lincomycin	Kidney	1500	1500	1500	500	--	--	Bovine - 600 Poultry – 600 Swine – 600 Equine - 15
	Erythromycin		400	200	400	400	--	--	
	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	--	--	--	
	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 Swine - 200
	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⁾	--	Ostrich - 10 Equine - 8
Florfenicol	Muscle	200	100	200	100	--	--	Bovine - 100 Poultry - 200 Swine – 150 Ostrich - 10 Equine - 8
Chloramphenicol		0.30 ⁽¹⁾	0.30 ⁽¹⁾	0.30 ⁽¹⁾	0.30 ⁽¹⁾	0.30 ⁽¹⁾	--	
Thianphenicol		50	50	50	50	--	--	
Chlortetracycline	Muscle	Sum equals	Sum equals	Sum equals	Sum equals	--	--	Bovine 600 Poultry – 600 Swine – 600 Equine - 8
Tetracycline		100	100	100	100	--	--	
Oxytetracycline						--	--	
Doxycycline		100	100	100	100	--	--	
Sulfachlorpyridazine		Sum equals	Sum equals	Sum equals	Sum equals	--	--	
Sulfadoxine		100	100	100	100	--	--	
Sulfamerazine						--	--	
Sulfadiazine						--	--	
Sulfamethoxazole						--	--	
Sulfathiazole						--	--	
Sulfamethazine						--	--	
Sulfaquinoxaline						--	--	
Sulfadimethoxine						--	--	
Sulfisoxazol						--	--	
Oxolinic acid		100	100	100	100	--	--	
Nalidixic Acid		20	10	20	20	--	--	
Flumequine		500	200	500	500	--	--	
Enrofloxacin		Sum equals	Sum equals	Sum equals	Sum equals	--	--	
Ciprofloxacin		100	100	100	100	--	--	
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		15	15	15	15	--	--	
Tylosin		100	100	100	100	--	--	
Lincomycin		100	100	200	200	--	--	
Clindamycin		15	15	15	15	--	--	

	Norfloxacin		20	20	20	20	--	--	
	Trimethoprim		50	100	50	50	--	--	
	Tilmicosin		100	50	100	150	--	--	
Sedatives	Acepromazin	Kidney	10	10	10	--	--	--	Bovine - 60 Swine – 60 Equine - 8
	Chlorpromazine		10	10	10	--	--	--	
	Carazolol		15	10	25	--	--	--	
	Azaperol		Sum equals	10	Sum equals	--	--	--	
	Azaperone		100	10	100	--	--	--	
	Xylasin		(6)	10	(6)	--	--	--	
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	10	10	--	100	
	Emamectin		--	--	--	--	--	50	
	Monensin	Liver	100	--	--	--	--	--	Bovine - 200
	Fipronil		100	--	--	--	--	--	
	Sisapronyl		100	--	--	--	--	--	
	Abamectin	Muscle	20	10	20	10	--	--	Bovine - 120 Poultry – 90 Swine – 60 Equine - 8
	Doramectin		10	40	5	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⁾	50 ⁽⁵⁾	--	--	
	Oxifendazole						--	--	
	Febantel						--	--	
	Flubendazole		10	10	50	200	--	--	
	Thiabendazole		100	10	100	10	--	--	
	Triclabendazole		250	10	500	10	--	--	
	Closantel		1000	10	10	10	--	--	

	Levamisole		10	10	10	10	--	--	
	Mebendazole		10	60	10	10	--	--	
Anticoccidials	Salinomycin	Muscle	--	--	100	100	--	--	Poultry – 600 Swine - 90
	Narasin		--	--	15	15	--	--	
	Lasalocid		--	--	50	60	--	--	
	Monensin		--	--	10	10	--	--	
	Maduramicin		--	--	15	240	--	--	
	Semduramycin		--	--	15	50	--	--	
	Trimethoprim		--	--	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	--	--	Poultry - 30 Swine - 30
	Ochratoxin A		--	--	0,5	0,5	--	--	
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	10	--	10	10	--	--	Bovine - 30 Swine - 30 Poultry - 30
Anabolic Substances	Methenolone	Urine	2 ⁽¹⁾	2 ⁽¹⁾	2 ⁽¹⁾	--	--	--	Slaughtered Bovines – 600
	Methylboldenone		2 ⁽¹⁾	2 ⁽¹⁾	2 ⁽¹⁾	--	--	--	

	Ethisterone		2 ⁽¹⁾	2 ⁽¹⁾	2 ⁽¹⁾	--	--	--	Live Bovines – 600 Swine - 60
	Norethandrolone		2 ⁽¹⁾	2 ⁽¹⁾	2 ⁽¹⁾	--	--	--	
	16-β-Stanozolol	Urine	2 ⁽¹⁾	2 ⁽¹⁾	2 ⁽¹⁾	--	--	--	Equine - 8
	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⁾	--	--	
	2-Thiouracil	Urine	10 ⁽¹⁾	--	10 ⁽¹⁾	--	--	--	Bovine - 85 Swine – 60
	6-Methyl, 2-Thiouracil		10 ⁽¹⁾	--	10 ⁽¹⁾	--	--	--	
	6-Propyl, 2-Thiouracil		10 ⁽¹⁾	--	10 ⁽¹⁾	--	--	--	
	Tapazole		10 ⁽¹⁾	--	10 ⁽¹⁾	--	--	--	
Beta-agonists	Salbutamol	Liver	--	5 ⁽¹⁾	--	5 ⁽¹⁾	--	--	Poultry – 75 Equine - 8
	Clenbuterol		--	0.25 ⁽¹⁾	--	0.2 ⁽¹⁾	--	--	
	Cimaterol		--	--	--	0.5 ⁽¹⁾	--	--	
	Zilpaterol		--	--	--	5 ⁽¹⁾	--	--	
	Ractopamine		--	--	--	1 ⁽¹⁾	--	--	
	Salbutamol	Urine	1 ⁽¹⁾	--	1 ⁽¹⁾	--	--	--	Slaughtered Bovines – 300 Live Bovines – 600 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	10	10	10	--	--	--	Bovine - 100 Equine - 15 Swine – 150
	Mefenamic acid		10	10	10	--	--	--	
	Tolfenamic acid		50	10	50	--	--	--	

	Carprofen		500	500	10	--	--	--	
	Flunixin		20	10	50	--	--	--	
	Nimesulide		10	10	10	--	--	--	
	Fenylbutazone		5	10	5	--	--	--	
	Meloxicam		20	20	10	--	--	--	
	Metamizole ⁽¹⁰⁾		100	100	100	--	--	--	
	Propifenazone		10	10	10	--	--	--	
	Ketoprofen		50	10	10	--	--	--	
	Dichlofenac		5	5	5	--	--	--	
	Indometacin		10	10	10	--	--	--	
	Piroxicam		10	10	10	--	--	--	
Steroidal Anti-Inflammatory Drugs	Dexamethasone	Liver	2	2	2	--	--	--	Bovine - 60 Equine - 8 Swine - 60
	Prednisolone		10	6	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: 4.0 pg/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, Pirazoles, Neonicotinoids, Carbamates and Benzimidazoles	⁽¹⁸⁾	Muscle	⁽¹⁸⁾	⁽¹⁸⁾	⁽¹⁸⁾	⁽¹⁸⁾	--	--	Bovine - 140 Poultry - 45 Swine - 45 Equine - 8

TABLE 2 – SAMPLING PLAN FOR MILK – PNCRC 2018

Substance Class	Substance	Tested Matrix	REFERENCE LIMIT (µg/L)	Nº of samples
Mycotoxins	Aflatoxin M1	Milk	0,5	60
Parasiticides	Abamectin ⁽³⁾	Milk	10	300
	Doramectin		15	
	Eprinomectin		20	
	Ivermectin ⁽⁴⁾		10	
	Moxidectin		10	
	Albendazole	Milk	100	90
	Trimethoprim	50		
	Antimicrobials	Chlortetracycline	Milk	Sum equals 100
Oxytetracycline				
Tetracycline				
Doxycycline				
Sulfathiazole		Sum equals 100		
Sulfamethazine				
Sulfadimethoxine				
Sulfachlorpyridazine				
Sulfadiazine				
Sulfadoxine				
Sulfamerazine				
Sulfamethoxazole				
Sulfaquinoxaline				
Sufisoxasol				

Non-Hormonal Anti-Inflammatory Drugs	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	
	Nafcillin		30	
	Ampicillin		4	
	Amoxicillin		4	
	Trimethoprim		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⁾	
	Thianphenicol		10	
	Florfenicol		10	
	Azithromycin		25	
Non-Hormonal Anti-Inflammatory Drugs	Naproxene	Milk	5 ⁽¹⁾	60

	Mefenamic acid		5 ⁽¹⁾	
	Tolfenamic acid		50	
	5-Hidroxyflunixin		40	
	Fenylbutazone		5 ⁽¹⁾	
	Meloxicam		15	
	Metamizole ⁽¹⁰⁾		50	
	Dichlofenac		0,1	
	Piroxicam		XXX – Check the MRL with DFIP.	
Inorganic contaminants	Arsenic	Milk	50	150
	Cadmium		50	
	Lead		20	
Dioxins, Furans and PCBs	PCDD	Milk	PCDD/F – 2.5 pg/g ⁽¹¹⁾⁽¹²⁾	40
	PCDF		PCDD/F-PCB – 5.5 pg/g ⁽¹¹⁾⁽¹²⁾	
	PCBs			
Organophosphorous compounds, Pyrethroids, Pirazoles, Neonicotinoids, Carbamates and Benzimidazoles	⁽¹⁸⁾	Milk	⁽¹⁷⁾	150

TABLE 3 – SAMPLING PLAN FOR HONEY – PNCRC 2018

Substance Class	Substance	Tested Matrix	REFERENCE LIMIT (µg/L)	Nº of samples
Antimicrobials	Chlortetracycline	Honey	Sum equals 20	60
	Oxytetracycline			
	Tetracycline			
	Doxycycline			
	Sulfathiazole		Sum equals 50	
	Sulfamethazine			
	Sulfadimethoxine			
	Tylosin			
	Erythromycin		10	
	Nitrofurazone/ - SEM	Honey	1 ⁽¹⁾	60
	Furazolidone - AOZ		1 ⁽¹⁾	
	Furaltadone - AMOZ		1 ⁽¹⁾	
	Nitrofurantoin - AHD		1 ⁽¹⁾	

	Chloramphenicol		0.30 ⁽¹⁾	
Halogenated and Organochlorine Compounds	Aldrin	Honey	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	
Carbamates	Carbofuran		50	
	Carbaryl		20	
	Captan		50	
Pyrethroids	Permethrin	Honey	20	60
	Cyfluthrin		20	
	Fenpropathrin		10	
	Deltamethrin		20	
	Amitraz		200	
Organophosphorous compounds	Chlorpyrifos		20	
	Dimethoate		20	
	Disulfoton		10	
	Pirimiphos methyl		50	
	Parathion		20	
	Fenamiphos		10	
	Terbuphos		10	
	Profenophos		20	
Inorganic contaminants	Arsenic (As)	Honey	300	60
	Cadmium (Cd)		100	
	Lead (Pb)		300	
Organophosphorous compounds, Pyrethroids, Pirazoles, Neonicotinoids,	⁽¹⁸⁾	Honey	⁽¹⁸⁾	45

Carbamates and Benzimidazoles				
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TABLE 4 – SAMPLING PLAN FOR FISH – PNCRC 2018

Substance Class	Substance	Tested Matrix	REFERENCE LIMIT (µg/L)				N° 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⁾	
	Arsenic ⁽⁶⁾		1000	1000	1000	1000	Aquiculture Fish - 60	
	Cadmium		⁽¹⁵⁾	⁽¹⁵⁾	500	⁽¹⁵⁾	Shrimp - 60	
	Lead		300	300	500	⁽¹⁶⁾	Wild Crustaceans and Molluscs - 20	
Antimicrobials	Nitrofurazone - SEM	Muscle	--	1 ⁽¹⁾	1 ⁽¹⁾	--	Aquiculture Fish - 60	
	Furazolidona - AOZ		--	1 ⁽¹⁾	1 ⁽¹⁾	--		Shrimp - 60
	Furaltadone - AMOZ		--	1 ⁽¹⁾	1 ⁽¹⁾	--		
	Nitrofurantoin - AHD		--	1 ⁽¹⁾	1 ⁽¹⁾	--		
	Oxytetracycline	Muscle	--	Sum equals 200	100	--	Aquiculture Fish - 60	
	Chlortetracycline		--		100	--		
	Tetracycline		--		100	--		
	Doxycycline	Muscle	--	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⁾	--	
	Thianphenicol		--	50	50	--	
	Florfenicol		--	1000	1000	--	
Anabolic Substances	Diethylstilbestrol (DES)	Muscle	--	1 ⁽¹⁾	--	--	Aquiculture Fish - 45
Colorings	Malachite Green ⁽¹⁷⁾	Muscle	--	2 ⁽¹⁾	2 ⁽¹⁾	--	Aquiculture Fish - 60
	Crystal Violet ⁽¹⁷⁾		--	2 ⁽¹⁾	2 ⁽¹⁾	--	Shrimp - 60
Organochlorine Pesticides	Alpha-HCH	Muscle	--	15	--	--	Aquiculture Fish - 30
	Beta-HCH		--	15	--	--	
	Delta-HCH		--	15	--	--	
	Dodecachlor		--	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-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⁾	Wild Fish - 60 Aquiculture Fish - 60 Wild Crustaceans and Molluscs - 20
Organophosphorous compounds, Pyrethroids, Pirazoles, Neonicotinoids, Carbamates and Benzimidazoles	⁽¹⁸⁾	Muscle	--	⁽¹⁸⁾	--	--	Aquiculture Fish - 30

TABLE 5 – SAMPLING PLAN FOR EGG – PNCRC 2018

Substance Class	Substance	Tested Matrix	REFERENCE LIMIT (µg/L)	N° of samples
Antimicrobials	Nitrofurazone/ - SEM	Egg	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	
	Thianphenicol		10	
	Florfenicol		10	
	Chloramphenicol		0.30 ⁽¹⁾	
Anticoccidials	Ethopabate	Egg	10	
	Lasalocid		10	
	Monensin		10	
	Decoquinate		20	
	Nicarbazin		300	
	Clopidol		10	
	Senduramycin		10	
	Trimethoprim		10	
	Salinomycin		10	
	Diaveridine		10	
	Toltrazuril		10	
	Robenidine		25	
	Amprolium		10	
	Narasin		10	
	Diclazuril		10	
	Maduramicin		12	
Parasiticides	Dimetridazole	Egg	3 ⁽¹⁾	60
	Ronidazole		3 ⁽¹⁾	
	Metronidazole		3 ⁽¹⁾	
	Iprnidazole		3 ⁽¹⁾	

Organochlorine Compounds and PCBs	Aldrin	Egg	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	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⁾	150
Organophosphorous compounds, Pyrethroids, Pirazoles, Neonicotinoids, Carbamates and Benzimidazoles	⁽¹⁸⁾	Egg	⁽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 determined 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:

The values of TEF-WHO 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 conclusions of 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., <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⁾ 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) (ANVISA=EU)

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

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

Substance	Bovine (Matrix: muscle)	Equine (Matrix: muscle)	Poultry (Matrix: muscle)	Swine (Matrix: muscle)	Milk	Honey	Farmed 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 equals	Sum equals	Sum equals	Sum equals	Sum equals	Sum equals	Sum equals	Sum equals
Aldicarb Sulfone	10	10	10	10	10	10	10	10
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
Carbofurane	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 (fat)	100 (fat)	2000 (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
Diffubenzuron	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	Sum equals	Sum equals	Sum equals	Sum equals	Sum equals	Sum equals	Sum equals
Disulfoton sulfone	10	10	20	10	10	10	10	20

[illegible]

Penthotoate	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
lprobenphos	10	10	10	10	10	10	10	10
lprodione	100	500	100	100	500	50	10	100

[illegible]

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	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
Tebuufenpyrade	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