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MPI Consolidated List of Tests for Animal Products: meat, poultry, honey, seafood, dairy, live animals and germplasm

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Part 1 Tests

Purpose

This list of tests is incorporated by reference into the Animal Products Notice: Specifications for Laboratories.

Who should read this List?

Laboratories that are recognised under the Animal Products Act 1999, to conduct tests for live animals, on animal material or animal products, or on materials associated with the processing of animal material or animal products.

This list of tests would be useful for the general public, and for premises, certifiers, and verifiers associated with the processing of animal material or animal products.



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Numerical Reference	Test	Animal Materials and Products and Associated Things	Method	Markets
	1.0 MEAT, POULTRY, E	GG & HONEY INDUSTRY PO	TABLE WATER MICROBIOLO	GY
1.1.1	Total coliforms (coliform bacteria), Escherichia coli	Potable water	MIMM 11.A1.1 rapid MIMM 11.A2 with 11.A2.6 MIMM 11.3/11.4 with 11.5	EU, US
1.2	Faecal coliforms	Potable water, HC Spec	MIMM 11.4 mFC MF MIMM 11.A2 MPN	all
1.3	Colony count 22°C	Potable water	MIMM 11.6 SPC	EU, US
1.6.1	Clostridium perfringens (including spores)	Potable water	MIMM Membrane filter method for <i>Clostridium</i> perfringens 11.A3	EU, US
1.8	Escherichia coli	Potable water, HC Spec	MIMM 11.A1.1 rapid APHA	all
2.0 MEA		TRY, EGG & EGG PRODUCT products or environmental sar	tage	ARASITOLOGY
2.1.1	Aerobic Plate Count (APC)	Minced meat and mechanically separated meat	Method as per ISO 17025 accreditation.	EU, South Africa
		Frozen, or packed chilled vacuum packed, or packed chilled packed meat cuts or carcasses.	Method as per ISO 17025 accreditation. Sample taker training, sampling techniques and transport of samples must follow all NMD requirements	Iran
2.1.2	APC spread plate	Bovine, bobby calf, caprine, cervine, ostrich and emu, ovine, and pigs	Must follow all NMD requirements	all
2.1.3	APC Petrifilm	Bovine, bobby calf, caprine, cervine, ostrich and emu, ovine, and pigs	Must follow all NMD requirements	all
2.1.4	APC spiral plater	Bovine, bobby calf, caprine, cervine, ostrich and emu, ovine, and pigs	Must follow all NMD requirements	all
2.1.5	APC	Packed edible tripe products	Must follow all sampling requirements	China
2.1.6	Total Bacterial Count (TBC) or APC	Fish meal (TBC)	Colony forming unit/gram method	China



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Numerical Reference	Test	Animal Materials and Products and Associated Things	Method	Markets
2.2.1	Escherichia coli, direct plate or Petrifilm	Minced meat, meat preparations and mechanically separated meat	Method as per ISO 17025 accreditation.	EU, South Africa
		Frozen, or packed chilled vacuum packed, or packed chilled packed meat cuts or carcasses.	Method as per ISO 17025 accreditation. Sample taker training, sampling techniques and transport of samples must follow all NMD requirements	<u>Iran</u>
2.2.2	Escherichia coli, Petrifilm	Bovine, bobby calf, caprine, cervine, ostrich and emu, and pigs	Must follow all NMD requirements	all
2.3	Staphylococcus aureus	Minced meat, meat preparations and mechanically separated meat	MIMM 7.8	South Africa
2.4.1	Salmonella	Minced meat, meat preparations and mechanically separated meat, ready-to-eat products containing raw egg, meat products intended to be eaten raw	Methods as per ISO 17025 accreditation for the matrix concerned	EU, US, South Africa, USA
		Frozen, or packed chilled vacuum packed, or packed chilled packed meat cuts or carcasses.		<u>Iran</u>
		Blood products for use in feed		EU
		Rendered meals		Indonesia, Philippines
		Rendered fats and fish oils not for human food		EU
		Processed pet food and flavouring innards		EU, Customs Union
		Processed animal proteins for feeding stuffs, pet food		EU, French Polynesia
		Gelatine and collagen for human food, shelf life		EU
		Gelatine and collagen not for human food		EU

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Numerical Reference	Test	Animal Materials and Products and Associated Things	Method	Markets
		Hydrolysed protein, di- calcium phosphate, tri- calcium phosphate not for human food		EU
		Egg products not for human food		EU
		Dried dietary foods for special medicinal purposes for infants below 6 months of age – excluding infant formula		EU
		Meat and bone meal		<mark>Fiji</mark>
		Fish meal and fish oil	Presence/absence method suitable to matrix	China
		Egg and egg products		<u>Australia</u>
		Egg and egg products, environmental samples, cull birds		Singapore
2.4.2	Salmonella	Beef, veal and pig meat	Sampling plans and methods prescribed in the EU OMAR must be complied with. ISO 6579:2002(E) or MIMM 7.7 with additional MKTTn broth in parallel as per ISO 6579:2002 (E) using XLD and BGM plating media	Sweden, Finland or to countries with same requirements e.g. Iceland
2.4.3	Salmonella	Bovine, bobby calf, caprine, cervine, ostrich and emu, and poultry (ducks, EOLs, meat chickens and turkeys)	Must follow all NMD requirements	all
		Raw ground beef and raw ground beef products		US
		Turkeys		EU
2.5	Shigella	Fish meal	Presence/absence method	China
2.6	Listeria monocytogenes	Cooked, ready-to-eat meat products and environmental samples	Method as per ISO 17025 accreditation for the matrix concerned.	EU, US
		Ready-to-eat foods including ready-to-eat foods for infants and special medicinal purposes – excluding infant formula. Environmental samples		EU



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Numerical Reference	Test	Animal Materials and Products and Associated Things	Method	Markets
		Gelatine and collagen for human food		EU
2.8	Clostridium perfringens	Rendered fats and fish oils not for human food	MIMM 7.10 Sulphite reducing anaerobes	EU
		Processed animal proteins for feeding stuffs, pet food		EU
2.8.1	Clostridium perfringens	Pet food	ISO 7937:2004 See also MIMM 7.10.3 re limits of detection	Customs Union
2.9	Enterobacteriaceae	Blood products for use in feed	MIMM 8.2 with method verified for defined matrix	EU
		Rendered fats and fish oils not for human food	e.g. rendered fats and fish oils	EU
		Processed pet food or flavoured innards		EU
	Processed animal proteins for feeding stuffs Gelatine and collagen not for human food		EU, <mark>French</mark> Polynesia	
				EU
		Hydrolysed protein, di- calcium phosphate, tri- calcium phosphate not for human food		EU
		Egg products not for human food		EU
		Dried infant formula processing areas and equipment		EU
		Fish meal	MPN method compatible with limit of ≤300 MPN/g	China
2.9.1	Cronobacter species including Cronobacter sakazakii	Dried dietary foods for special medicinal purposes for infants below 6 months of age - excluding infant formula	FDA BAM current edition 'Cronobacter' http://www.fda.gov/food/foodscienceresearch/laboratorymethods/ucm289378.htm;	EU
			Or ISO/TS 22964:2017; Or as per ISO 17025 scope of accreditation.	
2.10	Faecal coliforms	Muslin/vegetable fibre used as wrapping materials	MIMM 8.5	all
2.10.1	Total coliforms	Fish oil	MPN method compatible with limit of ≤ 300 MPN/g	China
Tests fo	r presence of disease agen	ts		•



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Numerical Reference	Test	Animal Materials and Products and Associated Things	Method	Markets
2.11	Bacillus anthracis	Inedible meals or other products as defined by MPI	OIE Manual of Diagnostic Tests and Vaccines for Terrestrial Animals current edition http://www.oie.int/en/international-standard-setting/terrestrial-manual/access-online	
2.12	Trichinella spp.	Meat and meat products conforming to label requirements or standards	Method as per EU OMAR	EU, Customs Union, Singapore, South Africa
2.13	Bovine Viral Diarrhoea (BVD) analysis	Bovine serum	Method as per ISO 17025 accreditation	India
2.13.1	Bovine Viral Diarrhoea (BVD) analysis	Blood (including plasma, serum and purified proteins)	Method as per ISO 17025 accreditation	China
2.14	American Foul Brood	Honey	Method as per ISO 17025 accreditation	Customs Union
2.15	Asepsis	Blood (including plasma, serum and purified proteins)	Method as per ISO 17025 accreditation	China
2.16	Mycoplasma	Blood (including plasma, serum and purified proteins)	Method as per ISO 17025 accreditation	China
22.1	Campylobacter	Poultry (ducks, EOLs, meat chickens, turkeys)	Must follow all NMD requirements	all
		Turkeys		EU
23.1	Escherichia coli O157:H7	Bulk manufacturing beef and bobby veal	US OMAR	US
		Raw ground beef and raw ground beef products		
23.1.1	Primary Escherichia coli O157:H7 culture isolation	Bulk manufacturing beef and bobby veal.	US OMAR	US
	using immunomagnetic separation (IMS)	Raw ground beef and raw ground beef products		
23.2	Non-O157 Shiga Toxin- producing Escherichia coli	Bulk manufacturing beef and bobby veal	US OMAR	US
23.3	Top 7 Shiga Toxin- producing Escherichia coli	Bulk manufacturing beef and bobby veal	US OMAR	US
23.4	Top 7 Shiga Toxin- producing <i>Escherichia coli</i> molecular confirmation	Bulk manufacturing bobby veal	US OMAR	US





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Numerical Reference	Test	Animal Materials and Products and Associated Things	Method	Markets
F	Recognition for proximate analy	3.0 MEAT – CHEMIST ysis requires that all Ash, Fat, I	RY Moisture and Protein tests are co	onducted.
3.1.1	Proximate analysis - Ash	Processed meat products	AOAC on-line edition 920.153	EU
3.1.2	Proximate analysis - Fat	Processed meat products	(1) AOAC on-line edition 960.39(2) AOAC on-line edition 991.36	
3.1.3	Proximate analysis - Moisture	Processed meat products	AOAC on-line edition 950.46B	
3.1.4	Proximate analysis - Protein	Processed meat products	AOAC on-line edition 928.08 (II) or equivalent automated procedure	
furnace a		in a muffle which is temperature i	ed overnight at 101°C and then adder ramped. Meat and bone meal need	
Tallow a	ınalysis	4.0 TALLOW AND FA	TS	
4.01	Insoluble impurities	Rendered fats from ruminant materials and rendered fats for human food	(1) AOAC Ca 3a – 46 most recent edition. (2) MIRINZ 831	EU US
4.02	FFA (m/m % oleic acid)	Rendered fats for human food	(1) AOAC Ca 5a-40 most recent edition. (2) MIRINZ 831	EU
4.03	Peroxide	Rendered fats for human food	(1) AOCS Cd 8-53 most recent edition. (2) AOAC 965.33 most recent edition (3) MIRINZ 831	EU
4.04	Moisture	Rendered fats for human food	 AOCS Ca 2a-45 (Dean and Stark method) most recent edition. AOCS Ca 2b-38 (Hot Plate Method) most recent edition. AOCS Ca 2c-25 air oven method @ 130°C most recent edition. AOCS Ca 2d-25 Vacuum oven method most recent edition. MIRINZ 831 	EU
	ets: Surveillance of potable wa	LE WATER - PHYSICO-CHEN ter in meat and game export p d Group B parameters are indi	oremises.	
5.01	Colour	Potable water, Group A		EU, US



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Numerical Reference	Test	Animal Materials and Products and Associated Things	Method	Markets
5.02	Conductivity	Potable water, Group A at 25°C	APHA latest edition or latest on-line edition, or as per	
5.03	pH (hydrogen ion concentration)	Potable water, Group A	scope of accreditation	
5.04	Turbidity	Potable water, Group A		
5.10	Ammoniacal nitrogen (ammonium)	Potable water, Group A		
5.11	Chloride	Potable water, Group B		
5.12	Fluoride	Potable water, Group B		
5.13	Nitrate	Potable water, Group B		
5.14	Nitrite	Potable water, Group A/Group B		
5.16	Sulphate	Potable water, Group B		
5.17	Aluminium	Potable water, Group A /Group B		
5.18	Arsenic	Potable water, Group B		
5.19	Boron	Potable water, Group B		
5.20	Cadmium	Potable water, Group B		
5.22	Chromium	Potable water, Group B		
5.23	Copper	Potable water, Group B		
5.24	Cyanide	Potable water, Group B		
5.25	Iron	Potable water, Group A /Group B		
5.26	Lead	Potable water, Group B		
5.28	Manganese	Potable water, Group B		
5.29	Mercury	Potable water, Group B		
5.31	Sodium	Potable water, Group B		
5.32	Selenium	Potable water, Group B		
5.35	Polynuclear aromatic hydrocarbons (PAH)	Potable water, Group B		
5.36 Pes	sticides:			
5.36.1	Acid herbicides:	Potable water	APHA latest edition or latest	EU, US
	2,4,5-T	Group B monitoring of some of the pesticide	on-line edition, or as per scope of accreditation	
	2,4-D parameters			
	2,4-DB			
	Dichlorprop			



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Numerical Reference	Test	Animal Materials and Products and Associated Things	Method	Markets
	Fenoprop			
	MCPA			
	Mecoprop			
	Pentachlorophenol			
	Picloram			
	Triclopyr			
5.36.2	Chlortoluron, Diuron, Thiabendazole	Potable water, Group B	APHA latest edition or latest on-line edition, or as per scope of accreditation	EU, US
5.36.3	Semi Volatile Organic Compounds (SVOC):	Potable water Group B includes	APHA latest edition or latest on-line edition, or as per	EU, US
	Benzo(a)pyrene	benzo(a)pyrene and some of the pesticide parameters	scope of accreditation	
	Alachlor	of the pesticide parameters		
	Aldicarb			
	Aldrin + dieldrin			
	Atrazine			
	Azinphos methyl			
	Bromacil			
	Carbofuran			
	Chlordane			
	Chlorpyriphos			
	Cyanazine			
	DDT + isomers			
	Dimethoate			
	Endrin			
	Heptachlor and heptachlor epoxide			
	Hexachlorobenzene			
	Hexazinone			
	Isoproturon			
	Lindane	ndane		
	Metalaxyl			
	Methoxychlor			
	Metolachlor			
	Metribuzin			
	Molinate			
	Oryzalin			



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Numerical Reference	Test	Animal Materials and Products and Associated Things	Method	Markets
	Oxadiazon			
	Pendimethalin]		
	Pirimiphos methyl]		
	Primisulfuron-methyl			
	Procymidone			
	Propazine			
	Pyriproxifen			
	Simazine			
	Terbacil			
	Terbuthylazine			
	Trifluralin			
5.36.4	1080	Potable water, Group B	APHA latest edition or latest on-line edition, or as per scope of accreditation	EU, US
5.39	Volatile Organic Compounds (VOC):	Potable water Group B includes some	APHA latest edition or latest on-line edition, or as per	EU, US
	Benzene	pesticide parameters	scope of accreditation	
	1,2-dichloroethane]		
	Tetrachloroethane and trichloroethane			
	Vinyl chloride			
	Epichlorohydrin	1		
	1,2-dibromo-3- chloropropane	_		
	1,2-dibromoethane]		
	1,2-dichloropropane			
	1,3-dicholoropropene, cis]		
	1,3-dichloropropene, trans			
5.40	Trihalomethanes	Potable water, Group B		
5.41	Oxidisability	Potable water, Group B		
5.42	Total Organic Carbon (TOC)	Potable water, Group B		
5.43	Acrylamide	Potable water, Group B		
5.44	Antimony	Potable water, Group B		
5.45	Bromate	Potable water, Group B		

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Numerical Reference	Test	Animal Materials and Products and Associated Things	Method	Markets
5.46	Nickel	Potable water, Group B		
6.0 A	ANIMAL PRODUCTS IN GENE	RAL - COMPOSITION (includ	des vitamins, minerals and oth	er nutrients)
6.01	Vitamin A, retinol	Meat and meat products	Official Methods of Analysis	EU, US
6.02	Vitamin B1, thiamine	conforming to label requirements or standards	of the Association of Official Analytical Chemists, most	
6.03	Vitamin B2, riboflavin	of composition	recent edition	
6.04	Vitamin B3, niacin or nicotinic acid			
6.05	Vitamin B5, pantothenic acid			
6.06	Vitamin B6, pyridoxin			
6.07	Folic acid or folate (a B vitamin)			
6.08	Biotin (a B complex vitamin)			
6.09	Vitamin B12, cyanocobalamin or hydroxocobalamin			
6.10	Vitamin C, ascorbic acid			
6.11	Vitamin D3, cholecalciferol			
6.12	Vitamin E, D1- alphatocopherol			
6.13	Vitamin K, menaquinone			
6.14	Calcium, mineral			
6.15	Chloride or chlorine, mineral			
6.16	Copper, mineral			
6.17	Fluoride or fluorine, mineral			
6.18	lodide or iodine, mineral			
6.19	Iron, mineral			
6.20	Magnesium, mineral			
6.21	Manganese, mineral			
6.22	Phosphorus, mineral			
6.23	Potassium, mineral			
6.24	Sodium, mineral			
6.25	Zinc, mineral			
6.26	Choline, amino acid			
6.27	Taurine, amino acid			

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Numerical Reference	Test	Animal Materials and Products and Associated Things	Method	Markets
6.28	Cholesterol			
6.29	Dietary fibre, total and insoluble			
6.30	Fatty acid profile			
6.31	pH			
6.32	Sulphated ash			
6.33	Total sugar			
	7.0 ANIMAL PRODUC	CTS IN GENERAL – FOOD AI	DDITIVES <mark>and</mark> ingredients	
7.01	Benzoic acid or benzoates	Meat and meat products	Official Methods of Analysis	EU, US
7.02	Sorbic acid or sorbates	conforming to label requirements or standards	of the Association of Official Analytical Chemists, most	
7.03	Nitrate	of composition	recent edition	
7.04	Nitrite			
7.05	Salt NaCl			
7.06	Sucrose			
7.07	Reducing sugars			
7.08	Invert sugar			
7.09	Sugar profile			
7.10	Sulphur dioxide or sulphites			



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Numerical Reference	Test	Animal Materials and Products and Associated Things	Group	Markets
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8.0 ANIMAL PRODUCTS - CHEMICAL RESIDUE TESTING (NCRP, NCCP & OMAR)

Method: relevant to current Animal Products Residue Programme and OMAR requirements.

Owing to special requirements of the residue programme, laboratories that hold accreditation under IANZ chemical programme 2.70 class of test may use this for the purposes of the residue programme. Such reports must be signed by 2.70 KTPs for that technique.

Product: applied to animal products, including dairy, as defined under the Animal Products Act 1999 conforming to standards.

Application: Markets as specified with defined testing of specified material.

8.1	Stilbenes plus steroids and resorcyclic acid lactones	Mammals, birds, fish, honey & dairy		all
8.4	Aminoglycosides	Mammals, birds, fish, honey & dairy	Antibacterial compounds	all
8.5	Beta-lactams	Mammals, birds, fish, honey & dairy	Antibacterial compounds	all
8.6	Cephalosporins	Mammals, birds, fish, honey & dairy	Antibacterial compounds	all
8.7	Tetracyclines	Mammals, birds, fish, honey & dairy	Antibacterial compounds	all
8.8	Amphenicols	Mammals, birds, fish, honey & dairy	Antibacterial compounds	all
8.9	Macrolides	Mammals, birds, fish, honey & dairy	Antibacterial compounds	all
8.9.1	Virginiamycin	Mammals & dairy	Antibacterial compounds	all
8.10	Sulphonamides	Mammals, birds, fish, honey & dairy	Antibacterial compounds	all
8.11	Nitroimidazoles	Mammals, birds, fish, honey & dairy	Antibacterial compounds	all
8.12	Carbadox	Mammals	Anticoccidials	all
8.13	Benzamidazoles	Mammals, birds, fish & dairy	Anthelmintics	all
8.13.1	Monepantel	Mammals, birds, fish & dairy	Anthelmintics	all
8.14	Imidazothiazoles eg levamisol	Mammals, birds, fish & dairy	Anthelmintics	all
8.15	Polyether coccidiostats	Mammals, birds, fish, honey & dairy	Anticoccidials	all
8.15.1	Toltrazuril	Mammals and birds	Anticoccidials	all
8.16	Milbemycin group	Mammals, birds, fish, honey & dairy	Anthelmintics	all
8.17	Synthetic pyrethoids and carbamate pesticides	Mammals, birds, fish, honey & dairy	Pesticides	all



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Numerical Reference	Test	Animal Materials and Products and Associated Things	Group	Markets
Re Re				
8.18	Organophosphates	Mammals, birds, fish, honey & dairy	Pesticides	all
8.19	Beta-Agonists	Mammals, birds, fish & dairy		all
8.20	Heavy Metals & Chemical Elements	Mammals, birds, fish, honey & dairy		all
	Mercury, cadmium, lead, chromium & arsenic	Fish meal		China
8.21	Organochlorines	Mammals, birds, fish, honey & dairy	Pesticides	all
8.22	Species identity and verification	Mammals, birds, fish, honey & dairy		all
8.23	Fluoroacetate/1080	Mammals, birds, fish, honey & dairy		all
8.25	Nitrofurans: furazolidone, furaltadone, nitrofurazone, nitrofurantoin, semicarbazide (SEM), aminooxizolidione (AOZ), aminomorpholino- oxizolidone (AMOZ), aminohydantoin (AH)	Mammals, birds, fish, honey & dairy	Antibacterial compounds	all
8.26	Anticoagulants	Mammals, birds, fish, honey & dairy		all
8.27	Dioxins, coplanar PCBs, and polybromodiphenyl ethers (PBrDPE) and PAHs	Mammals, birds, fish, honey & dairy		all
	Dioxins	Fish meal & fish oil		<u>China</u>
8.28	Quinolone antibiotics	Mammals, birds, fish, honey & dairy	Antibacterial compounds	all
8.29	Non-steroidal anti- inflammatory substances (NSAIDS) e.g. phenyl butazone	Mammals, birds, fish & dairy		all
8.30	Amprolium	Mammals and birds	Anticoccidials	all
8.31	Hormonal growth promotants	Mammals		all
8.32	Thyrostatic agents	Mammals, birds and fish		all
8.33	Prostagenic substances	Mammals, birds and fish		all
8.34	Corticosteriods	Mammals, birds, fish & dairy		all
8.35	Halofuginone	Mammals and birds	Anticoccidials	all



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Numerical Reference	Test	Animal Materials and Products and Associated Things	Group	Markets
8.36	Robenidene	Mammals, birds and fish	Anticoccidials	all
8.37	Malachite green and triphenyl methane dyes including gentian violet	Fish		all
	Malachite green	Fish meal & fish oil		<u>China</u>
8.38	Chlorpromazine	Mammals, birds and fish		all
8.39	Nicarbazin	Birds	Anticoccidials	all
8.40	Paradichlorobenzene (PDB)	Honey	Pesticides	all
8.41	Salicylanilides	Mammals, birds	Anthelmintics	all
8.42	Tutin	Honey		all
8.43	Melamine, dicyandiamide (DCD), cryomazine, dicyclanil and cyanuric acid	Mammals, fish and dairy		all
	Melamine	Fish meal		<u>China</u>
8.44	Lignocaine and Xylazine	Mammals and dairy	Sedative	all
8.45	Isoeugenol	Fish	Sedative	all
8.46	Fungicides	Mammals, birds, fish, honey & dairy	Fungicides	all
8.47	Herbicides	Mammals, birds, fish, honey & dairy	Herbicides	all
8.47.1	Glyphosate, including AMPA	Mammals, birds, fish, honey & dairy		all
8.48	Mycotoxins (fungal toxins)	Mammals, birds, fish, honey & dairy		all
8.49	Neonicotinoids	Mammals, birds, fish, honey & dairy		all
8.50	Pyrrolidiazine alkaloids	Honey		all
8.51	Fumagillin	Honey	Antibacterial compounds	all
8.52	Amitraz	Mammals, birds, fish, honey & dairy	Pesticides	all
8.53	Phthalates	Honey and dairy		all
8.54	Cleansing agents: phenols and cresols including chlorinated forms	Mammals, birds, fish, honey & dairy		all
8.55	Nitrate and nitrite	Dairy		all
8.57	Aldehydes	Dairy		all
8.58	Dapsone	Dairy		all



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Numerical Reference	Test	Animal Materials and Products and Associated Things	Group	Markets
8.59	Buparvaquone (BPQ)	Mammals and dairy		all
8.60	Quarternary ammonium compounds (QACs)	Dairy		all
8.61	Chlorhexidine	Dairy		all
8.62	Macrocyclic lactones	Dairy	Anthelmintic	all
8.63	Thiocyanates	Dairy		all
8.64	Bisphenol A	Dairy		all
8.65	Inhibitory substances	Dairy	Antibacterial compounds	all
8.66	Chlorate & perchlorate	Dairy		all
8.67	Nonphenyl ethoxylates (NPEs)	Dairy		all
8.68	3-monochloropropanediol (3-MCPD)	Dairy		all
8.69	Insecticides	Mammals, birds, fish, honey & dairy		all

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Numerical Reference	Test	Animal Materials and Products and Associated Things	Method	Markets
		9.0 GELATINE FOR HUMA s below; shelf-life of product micro Honey Microbiology/Parasitology	obiological test methods for gelat	ine are found in
9.08	As	Residues parameter		EU
9.09	Pb	Residues parameter		
9.10	Hg	Residues parameter		
9.11	Cr	Residues parameter		
9.12	Cu	Residues parameter		
9.13	Zn	Residues parameter		
9.16	SO ₂	Residues parameter	Reith Williams	
9.17	H ₂ O ₂	Residues parameter	European Pharmacopoeia 1986 (V ₂ O ₂)	
9.18	Cd	Residues parameter		
		10 HONEY		
10.02	Moisture	Honey		<mark>all</mark>
10.03	Reducing Sugars	Honey		<mark>all</mark>
10.04	Leptospermum scoparium DNA	Mänuka honey	PCR as per MPI Technical Paper 2016/74 latest version; or other DNA extraction method validated as equivalent, as per ISO 17025 accreditation. Substitution or modification of the ManKan TM Honey real time PCR kit is not permitted.	all
10.05	Four chemical characterisation compounds: 2'- Methoxyacetophenone (2'-MAP) 2-Methoxybenzoic acid (2-MBA) 3-Phenyllactic acid (3-PA) 4-Hydroxyphenyllactic acid (4-HPA)	Mänuka honey	Spectroscopy as per MPI Technical Paper 2016/73 latest version; or other method validated as equivalent, as per ISO 17025 accreditation.	all
	11	I.1 SEAFOOD PRODUCTS POT	ABLE WATER	ı
11.1.1	Faecal coliforms	Potable water HC Spec Schedule 1 COP, Part 2, section 4	APHA 4 th edition 1970 MIMM 11.4 mFC MF MIMM 11.A2 MPN	all



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Numerical Reference	Test	Animal Materials and Products and Associated Things	Method	Markets		
11.1.2	Total coliforms (coliform bacteria) Escherichia coli	Potable water HC Specs Schedule 1 COP, Part 2, Section 4	APHA 4 th edition 1970 MIMM 11.A1.1 rapid MIMM 11.A2 with 11.A2.6 MIMM 11.3/11.4 with 11.5	all		
	11.2 SEAFOOD PRODUCTS PROCESS WATER					
11.2.1	Faecal coliforms	Process water for ICSS listed premises HC Spec	APHA 4 th edition 1970 MIMM 11.4 mFC MF MIMM 11.A2 MPN	all		
11.2.3	Total coliforms (coliform bacteria) Escherichia coli	Wet storage process water for ICSS listed premises HC Spec	APHA 4 th edition 1970 MIMM 11.A1.1 rapid MIMM 11.A2 with 11.A2.6 MIMM 11.3/11.4 with 11.5	all		
11.2.4	Chemical physical parameters	Process water for ICSS listed premises HC Spec	Current editions of AOAC and APHA	all		
	11.3	SEAFOOD PRODUCTS DEPUR	RATION WATER			
11.3.1	Faecal coliforms	Depuration process water for ICSS listed premises HC Spec	APHA 4 th edition 1970 MIMM 11.4 mFC MF MIMM 11.A2 MPN	all		
11.3.3	Total coliforms (coliform bacteria) Escherichia coli	Depuration process water for ICSS listed premises HC Spec	APHA 4 th edition 1970 MIMM 11.A1.1 rapid MIMM 11.A2 with 11.A2.6 MIMM 11.3/11.4 with 11.5	all		
		11.4 SEAFOOD PRODUCTS S	EAWATER			
11.4.1	Escherichia coli	Clean seawater for land based premises HC Spec Schedule 2	No method specified	all		
		Clean seawater for fishing vessels HC Spec	No method specified Testing only required at the discretion of D-G	all		
11.4.2	Total coliforms	Clean seawater for land based premises HC Spec Schedule 2	No method specified	all		



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Numerical Reference	Test	Animal Materials and Products and Associated Things	Method	Markets
		Clean seawater for fishing vessels Limited Processing Fishing Vessels RCS clause 20 and HC Spec	No method specified Testing only required at the discretion of D-G	all
Note re fi	sh meal and fish oils refer 0 Animal Products Chemic	11.5 ALL FISH section 2.0 Meat & Meat Product, cal Residue Testing (NCRP & NC	Poultry & Honey Microbiology/F CP) <mark>and OMAR</mark>	Parasitology and
11.5.3	SPC, also known as total viable count (TVC), total plate count (TPC) or APC	All fish	No method specified	India, Customs Union
11.5.4	Staphylococcus aureus	All fish	No method specified	India
11.5.6	Vibrio parahaemolyticus	All fish	As per current edition APHA or FDA BAM as per laboratory's scope of accreditation	India
11.5.7	Heavy metals	All fish	As per current edition AOAC	EU
		Fish species and heavy metals as specified	and APHA as per laboratory's scope of accreditation	Mauritius
11.5.8	Histamine	Fish species as specified	As per ISO 17025	EU, Mauritius
		Fish species matured in brine	accreditation	EU
		All fish HC Specs		all
11.5.9	Total Volatile Basic Nitrogen (TVB-N)	All fish	TVB-N Fish Zlebensen or Journal of Food Protection 52, Issue 6, 1989 or APHA 4 th compendium.	EU, Mauritius
11.5.10	Escherichia coli	All fish	MPN method	India
11.5.11	Salmonella	All fish	No method specified	India, Customs Union
11.5.12	Vibrio cholerae	All fish	As per current edition of APHA or FDA BAM	India
	11.6	BIVALVE MULLUSCAN SHELLF	FISH UNCOOKED	
11.6.1	Faecal coliforms	Bivalve molluscan shellfish growing waters Clause 88(1) BMS RCS Specs	Approved methods as recommended by the National Shellfish Sanitation Programme (APHA 4th Ed 1970)	all
11.6.2	Escherichia coli	Bivalve molluscan shellfish (flesh) Clause 88(1) BMS RCS Specs, EU OMAR	Enumeration of Escherichia coli in Molluscan Bivalve Shellfish, MPI Method	all

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Numerical Reference	Test	Animal Materials and Products and Associated Things	Method	Markets
		Raw harvested bivalve molluscan shellfish HC Spec		all
		Live bivalve molluscs and live echinoderms, tunicates and gastropods		EU
11.6.3	Salmonella	Raw harvested bivalve molluscan shellfish HC Spec	ISO 6579:2002(E)	all
		Live bivalve molluscs and live echinoderms, tunicates and gastropods		EU
		Bivalve molluscan shellfish		Customs Union <mark>, India</mark>
11.6.4	Vibrio parahaemolyticus	Bivalve molluscan shellfish Clause 77 BMS RCS Specs	FDA BAM (most current edition)	all
11.6.5	Vibrio vulnificus	Bivalve molluscan shellfish Clause 77 BMS RCS Specs	FDA BAM (current edition)	all
11.6.6	Heavy metals	Bivalve molluscan shellfish, Clause 7(6) BMS RCS Specs	Current editions of AOAC and APHA.	all
		Bivalve molluscan shellfish, crustaceans, cephalopods		EU
11.6.7	APC <mark>, TPC</mark>	Bivalve molluscan shellfish		Customs Union <mark>, India,</mark> Singapore
11.6.8	Staphylococcus aureus	Bivalve molluscan shellfish		<u>India</u>
11.6.9	Vibrio cholerae	Bivalve molluscan shellfish		India, Singapore
11.6.10	Norovirus	Frozen Oysters		Singapore
		11.7 SHELLFISH BIOTO	XINS	
11.7.1	PSP	Bivalve molluscan shellfish	DG approved methods only	all
11.7.2	DSP	HC Spec, EU OMAR,		
11.7.3	NSP	Clause 88(1) BMS RCS Specs		
11.7.4	ASP			
11.7.5	PTX			



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Numerical Reference	Test	Animal Materials and Products and Associated Things	Method	Markets		
11.7.6	YTX					
11.7.7	AZP					
	11.8 COOKED SEAFOOD PRODUCT					
11.8.1	Escherichia coli	Cooked crustaceans and molluscan shellfish	Enumeration of Escherichia coli in Molluscan Bivalve Shellfish, MPI Method	EU		
11.8.2	Salmonella	Frozen pre-cooked crustaceans (flesh only) and cooked crustaceans Cooked crustaceans and molluscan shellfish	ISO 6579-1:2002(E) or as per ISO 17025 accreditation for the matrix tested verified as equivalent to ISO 6579- 1:2002(E)	EU		
		Fishery products including bivalve molluscan shellfish	No method specified	Customs Union		
11.8.5	Listeria monocytogenes	Ready-to-eat fish, shellfish, crabs, rock lobster, fish products and environmental samples HC Spec	Presence/absence testing Method as per ISO 17025 accreditation	all		
		Ready-to-eat foods able to support the growth of <i>Listeria monocytogenes</i> , other than those intended for infants and special medicinal purposes before the product has left the manufacturer's control and where the operator is unable to satisfy MPI that the product will not exceed 100 cfu/g during the product's shelf-life		EU		
		Ready-to-eat foods able to support the growth of <i>Listeria monocytogenes</i> , other than those intended for infants and special medicinal purposes where the operator can satisfy MPI that the product will not exceed 100 cfu/g during the product's shelf-life	Enumeration testing Method as per ISO 17025 accreditation	EU		





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Numerical Reference	Test	Animal Materials and Products and Associated Things	Method	Markets
11.8.6	APC	Fishery products, including bivalve molluscan shellfish	No methods specified	Customs Union



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Numerical Reference	Test	Animal Materials and Products and Associated Things	Method
	RAW MILK)		
30.1	Somatic Cells	Raw milk	
30.2	Inhibitory Substances	Raw milk (all species)	One or more methods for this test is listed in http://www.foodsafety.govt.nz/industry/sectors/dairy/monitoring-testing/laboratories/testing.htm under this link http://www.foodsafety.govt.nz/elibrary/industry/Approved_Testxls
30.3	Freezing point (to detect water adulterant)	Raw milk (all species)	
30.4	Urea (milk integrity)	Raw milk (all species)	
30.5	APC	Raw milk (all species)	
30.6	Total coliforms	Raw milk (all species)	
30.7	Thermodurics	Raw milk (all species)	
30.8	Foreign matter	Raw milk (all species)	
30.9	Titratable acidity	Raw milk (all species)	
DAIRY P	RODUCTS - MICROBIOLOG	Y	
31.1	APC / SPC / TCC	All dairy products	
31.2	Bacillus cereus	All dairy products	
31.2.1	Bacillus cereus Enterotoxin	All dairy products	
31.3	Campylobacter	All dairy products	
31.4	Clostridium botulinum	All dairy products	
31.5	Clostridium perfringens	All dairy products	
31.6	Coliforms (count)	All dairy products	
31.7	Escherichia coli	All dairy products	
31.8	Enterobacteriaceae	All dairy products	
31.9	Faecal coliforms	All dairy products	
31.10	Listeria monocytogenes	All dairy products	
31.11	Lipolytic organisms	All dairy products	
31.12	Salmonella (detection)	All dairy products	
31.13	Staphylococcal Enterotoxin	All dairy products	



Numerical Reference	Test	Animal Materials and Products and Associated Things	Method
31.14	Staphylococcus aureus (Staphylococcus, Coagulase Positive)	All dairy products	
31.15	Sulphite-reducing Clostridia (SRC)	All dairy products	
31.16	Yeasts and Moulds	All dairy products	
31.17	Cronobacter sakazakii (previously genus name was Enterobacter)	Infant formula	
DAIRY PRO	DDUCTS - COMPOSITION (i	ncludes standards of identity, vitamin	s, minerals and other nutrients)
32.1	Fat	All dairy products	
32.2	Fatty Acids	All dairy products	
32.3	Moisture	All dairy products	
32.4	Protein	All dairy products	
32.5	Solids Non-Fat	All dairy products	
32.6	Salt	All dairy products	
32.7	Vitamin A (retinol)	All dairy products	
32.8	Vitamin D2 (ergocalciferol) & Vitamin D3 (cholecalciferol)	All dairy products	
32.9	Minerals: Sodium, Potassium, Chloride	All dairy products	
32.10	Sugar	Icecream	
32.11	Biotin	Infant formula composition	
32.12	Calcium	Infant formula composition	
32.13	Chloride	Infant formula composition	
32.14	Folic acid	Infant formula composition	
32.15	Ganglioside	Infant formula composition	
32.16	Inositol	Infant formula composition	
32.17	Inulin	Infant formula composition	
32.18	lodine value	Infant formula composition	



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Numerical Reference	Test	Animal Materials and Products and Associated Things	Method
32.20	Lutein	Infant formula composition	
32.21	Nucleotides	Infant formula composition	
32.22	Protein	Infant formula composition	
32.23	Taurine	Infant formula composition	
32.24	Vitamin A	Infant formula composition	
32.25	Vitamin B1	Infant formula composition	
32.26	Vitamin B2	Infant formula composition	
32.27	Vitamin B3	Infant formula composition	
32.28	Vitamin B5	Infant formula composition	
32.29	Vitamin B6	All dairy products including infant formula	
32.30	Vitamin B12	Infant formula composition	
32.31	Vitamin C	Infant formula composition	
32.32	Vitamin K1	All dairy products including infant formula	
32.33	Immunoglobulins	All dairy products	
32.34	Lactose	All dairy products	
32.35	Sterols	All dairy products	





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Numerical Reference	Test	Animal Materials and Products and Associated Things	Method
DAIRY PR	ODUCTS - PHYSICAL & CH	IEMICAL TESTS	
33.1	Foreign Matter	All dairy products	One or more methods for this test is listed in http://www.foodsafety.govt.nz/industry/laboratories/testing.htm under this link http://www.foodsafety.govt.nz/elibrary/industry/Approved Testxls
33.2	Sediment	All dairy products	
33.3	Freezing point (to detect water adulterant)	All dairy products	
33.4	Phosphatase	All dairy products	
33.5	Reichart-Meissl Value (fat)	All dairy products	
33.6	Polenske Value (fat)	All dairy products	
33.7	рН	All dairy products	
33.8	Titratable Acidity	All dairy products	
33.9	Solubility (insolubility index)	All dairy products	
33.10	Aflatoxin	All dairy products	
33.11	Peroxide value	All dairy products	
33.12	Radionuclides	All dairy products	
33.13	Ash	All dairy products	
33.14	Hydrogen peroxide	All dairy products	
33.15	Scorched particles	All dairy products	

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Ministry for Primary Industries

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ce ce	Test	Method			
Numerical Reference					
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LIVE AN	LIVE ANIMALS and GERMPLASM – DISEASE TESTS				
51.1	Aeromonas salmonicida	Bacterial culture, propagation			
52.1	Akabane virus	Virus neutralisation test (VNT), antibody detection			
53.1	Anaplasmosis	Complement fixation test (CFT), antibody detection			
54.1	Avian influenza virus	Agar-gel immunodiffusion test (AGID test), antibody detection			
55.1	Avian influenza virus	Enzyme-linked immunosorbent assay – antibody detection (ELISA-Ab), antibody			
55.2	Avian influenza virus	Hemagglutination inhibition test (HI), antibody detection			
55.3	Avian influenza virus	Virus isolation (VI), propagation			
55.4	Avian paramyxovirus serotype 1 (APMV-1)-NDV	Polymerase chain reaction - RNA, DNA detection (PCR), molecular biology			
55.5	Avian paramyxovirus serotype 2 (APMV-2)-Yucaipa	HI, antibody detection			
55.6	Avian paramyxovirus serotype 2 (APMV-2)-Yucaipa	PCR, molecular biology			
55.7	Avian paramyxovirus serotype 3 (APMV-3)	HI, antibody detection			
55.8	Avian paramyxovirus serotype 3 (APMV-3)	PCR, molecular biology			
55.9	Avian pneumovirus (turkey rhinotracheitis)	ELISA-Ab, antibody detection			
56.1	Babesia caballi	ELISA-Ab, antibody detection			
56.2	Babesia caballi	Immunofluorescence antibody test (IFAT), antibody detection			
56.3	Babesia gibsoni	IFAT, antibody detection			
56.4	Babesia gibsoni	PCR, molecular biology			
56.5	Blood parasites (Babesia spp.)	Blood smear, visualisation			
57.1	Bluetongue virus	AGID test – antibody detection			
57.2	Bluetongue virus	ELISA-Ab, antibody detection			
58.1	Bovine herpesvirus 1	PCR, molecular biology			
59.1	Bovine viral diarrhoea virus (BVDV)	ELISA-Ab, antibody detection			
59.2	Bovine viral diarrhoea virus (BVDV)	Enzyme-linked immunosorbent assay – antigen detection (ELISA-Ag), antigen detection			
59.3	Bovine viral diarrhoea virus (BVDV)	PCR, molecular biology			
59.4	Bovine viral diarrhoea virus (BVDV)	VI, propagation			
59.5	Bovine viral diarrhoea virus (BVDV)	VNT, antibody detection			
	L	ı			



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ce al	Test	Method
Numerical Reference		
59.6	Bovine viral diarrhoea virus (BVDV)	2 passages, propagation
60.1	Brucella abortus	Serum agglutination test (SAT), antibody detection
60.2	Brucella abortus	Serum agglutination test - European (SAT EU as per current EU OMAR), antibody detection
60.3	Brucella canis	Rapid slide agglutination (RSA), antibody detection
60.4	Brucella ovis	ELISA-Ab, antibody detection
60.5	Brucella ovis	CFT, antibody detection
60.6	Brucella spp. (B. abortus and/or B. melitensis and/or B suis)	ELISA-Ab, antibody detection
60.7	Brucella spp. (B. abortus and/or B. melitensis)	CFT, antibody detection
61.1	Campylobacter spp.	Bacterial culture, propagation
61.2	Campylobacter fetus subsp. venerealis	Bacterial culture, propagation
62.1	Canine/feline heartworm	ELISA-Ag, antigen detection
63.1	Caprine arthritis-encephalitis (CAE) virus	ELISA-Ab, antibody
64.1	Cervine herpesvirus type-1	VNT, antibody detection
65.1	Cytopathic fish virus	VI, propagation
66.1	EDS 76	HI, antibody detection
67.1	Ehrlichia canis	IFAT, antibody detection
68.1	Enzootic bovine leukosis (EBL)	ELISA-Ab, antibody detection
68.2	Enzootic bovine leukosis (EBL)	AGID, antibody detection
69.1	Epizootic haemorrhagic disease (EHD)	AGID, antibody detection
70.1	Equine herpes virus	VNT, antibody detection
70.2	Equine herpes virus - 1	ELISA-Ab, antibody detection
70.3	Equine herpes virus - 4	ELISA-Ab, antibody detection
71.1	Equine infectious anaemia	AGID, antibody detection
71.2	Equine influenza virus	HI, antibody detection
71.3	Equine influenza virus	PCR, molecular biology
72.1	Equine viral arteritis (EVA) virus	VI, propagation
72.2	Equine viral arteritis (EVA) virus	VNT, antibody detection
73.1	Infectious bovine rhinotracheitis (IBR)	ELISA-Ab, antibody detection
73.2	Infectious bovine rhinotracheitis (IBR)	VNT, antibody detection
73.3	Infectious bovine rhinotracheitis (IBR)	VI, propagation



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- o	Test	Method
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Numerical Reference		
74.1	Infectious bursal disease (IBD)	ELISA-Ab, antibody detection
74.2	Infectious bursal disease (IBD)	PCR, molecular biology
74.2	Infectious bursal disease (IBD)	VNT, antibody detection
	, ,	•
75.1	Influenza	PCR, molecular biology
75.2	Influenza A + B	Lateral flow device (LFD), antigen detection
76.1	Johne's disease (JD)	AGID, antibody detection
76.2	Johne's disease (JD)	CFT, antibody detection
76.3	Johne's disease (JD)	ELISA-Ab, antibody detection
77.1	Leishmania spp.	IFAT, antibody detection
77.2	Leptospira ballum (1)	Microscopic agglutination test (MAT), antibody detection
77.3	Leptospira bratislava (2)	MAT, antibody detection
77.4	Leptospira canicola (3)	MAT, antibody detection
77.5	Leptospira copenhageni (4)	MAT, antibody detection
77.6	Leptospira grippotyphosa(5)	MAT, antibody detection
77.7	Leptospira hardjo-bovis (6)	MAT, antibody detection
77.8	Leptospira iceterohaemorrhagiae (7)	MAT, antibody detection
77.9	Leptospira pomona (8)	MAT, antibody detection
77.10	Leptospira tarassovi (9)	MAT, antibody detection
78.1	Lyssa virus	IFAT, antibody detection
79.1	Maedi visna (MV) virus	ELISA-Ab, antibody detection
80.1	Malignant catarrhal fever	PCR, molecular biology
81.1	Microfilariae	Knott's test, visualisation
82.1	Mycoplasma spp.	Bacterial culture, propagation
82.2	Mycoplasma agalactiae	ELISA-Ab, antibody detection
82.3	Mycoplasma capricolum subsp. capricolum	CFT antibody detection
83.4	Mycoplasma gallisepticum	RSA, antibody
84.5	Mycoplasma mycoides mycoides Large colony	CFT antibody detection
85.6	Mycoplasma synoviae	RSA, antibody
86.7	Mycoplasma meleagridis	RSA, antibody detection
87.8	Myxobolus cerebralis	Microscopy, visualisation
88.1	Newcastle disease virus (NDV)	ELISA-Ab, antibody detection
88.2	Newcastle disease virus (NDV)	HI, antibody detection
88.3	Newcastle disease virus (NDV)	VI, propagation
89.1	Ornithobacterium rhinotracheale	Bacterial culture, propagation





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cal	Test	Method
Numerical Reference		
212		
90.1	Palyam virus	AGID, antibody detection
91.1	Parainfluenza virus type-3	VI, propagation
92.1	Parasite eggs	Faecal egg count, visualisation
93.1	Pestivirus/hairy shaker disease virus/ border disease virus	VI, propagation
93.2	Hairy shaker disease virus / border disease virus	2 passages, propagation
94.1	Porcine parvovirus	ELISA-Ab, antibody detection
95.1	Q fever	CFT, antibody detection
95.2	Q fever	ELISA-Ab, antibody detection
95.3	Q fever	PCR, molecular biology
96.1	Rabies virus	Rapid fluorescent focus inhibition test (RFFIT), antibody detection
97.1	Renibacterium salmoninarum	PCR, molecular biology
98.1	Salmonella spp	Bacterial culture, propagation
98.2	Salmonella spp	ELISA-Ab, antibody detection
98.3	Salmonella specific serotypes: including S. Typhimurium and S. Enteriditis	Bacterial culture, propagation
98.4	Salmonella arizona	Bacterial culture, propagation
98.5	Salmonella pullorum	SAT, antibody detection
99.1	Streptococcus equi subsp., equi culture	Bacterial culture, propagation
100.1	Taylorella equigenitalis	Bacterial culture, propagation
101.1	Theileria equi	ELISA-Ab, antibody detection
101.2	Theileria equi	IFAT, antibody detection
102.1	Ticks	Identification, visualisation
103.1	Trichinella spiralis	ELISA, antibody detection
103.2	Trichinella spiralis	Pepsin digestion, visualisation
103.3	Trichomonas foetus	Bacterial culture, propagation
104.1	Yersinia ruckeri	Bacterial culture, propagation
105.1	West Nile Virus	ELISA-Ab, antibody detection





Part 2 Designated ILCP

1.0 Background

Ministry for Primary Industries

Manatū Ahu Matua

The objective of the designated Inter-laboratory Comparison Programme (ILCP) is to determine a laboratory's capability to conduct microbiological testing for potable water, meat, poultry and seafood, and chemical testing for meat, tallow, fats, and potable water for tests (as applicable) in the MPI Consolidated List of Tests for Animal Products: meat, poultry, honey, seafood, dairy, live animals and germplasm (CLT) as specified in the following Tables 1 to 7.

2.0 Requirements

- (1) Tables 1 to 7 specify the particular designated ILCP test that laboratories that are recognised, under the Animal Products Act 1999 (APA), must conduct in relation to the particular CLT tests that are listed in those tables.
- (2) Laboratories must notify the ILCP provider to obtain proficiency samples if any of these specified CLT tests are in their scope of recognition under the APA and must cover the cost of the samples.
- (3) Tables 1 to 7 specify the minimum number of rounds required. A 'round' means each time the ILCP Provider sends proficiency samples to a laboratory.
- (4) The ILCP provider will send the laboratory a set of samples (e.g. freeze dried vials for potable water, meat, poultry and seafood product microbiological samples, or meat and bone meal or meat paste for meat product chemistry samples, or tallow for tallow and fat chemistry samples, or potable water for potable water chemistry) with an amount of the parameter to be tested e.g. a microbiological organism(s) or chemical(s) of concern of which the presence and quantity is unknown by the laboratory receiving the sample.
- (5) On receipt of an ILCP sample, the laboratories are required to determine presence. absence, identity and/or count (where applicable) of microorganisms present and/or perform chemical analyses to establish the levels present of chemical parameters of concern.
- (6) The laboratory must undertake the designated ILCP test within 48 hours of receipt of any microbiological sample, and as soon as practicable for chemistry samples such that results of either microbiological testing or chemistry testing can be reported to the ILCP provider by the results due date for the round, established by the ILCP provider.
- (7) After the results due date, the round is closed. Statistical analysis is performed on the data sets by the ILCP provider. Laboratory performance is evaluated and reports are distributed electronically by the ILCP provider. A summary of round performance is reported directly to MPI by the ILCP provider each month in addition to the individual reports being sent to each respective participating laboratory.

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3.0 Warning or Action performance rating notification responses

(1) In the event of a 'warning' performance rating reported by the ILCP provider the laboratory must undertake the minimum of an internal investigation as soon as practicable.

4.0 Minor (m) defect category and follow up action

- (1) The ILCP provider must assign a minor defect (m) category when a second 'warning' performance rating is given in the following round for the same ILCP type of test, or where individual results in any round are assigned an 'action' rating.
- (2) In the event of a minor (m) defect category performance rating notification reported by the ILCP provider the laboratory must:
 - a) request a re-test sample within two working days following receipt of the notification by the ILCP provider, except where evidence is provided that the error was not related to performance of the analysis (e.g. was a transcription error); and
 - b) complete testing of re-test samples within five working days following a receipt of a re-test sample and send results back to the ILCP provider; and
 - c) carry out and document an investigation as to the cause of the warning or action rating notification and take corrective action as necessary.

5.0 Major (M) defect category and follow up action

- (1) The ILCP provider must assign a major (M) defect category when a 'warning' or 'action' rating notification is reported on a retest sample.
- (2) In the event of a major (M) defect category performance rating notification reported by the ILCP provider the laboratory must:
 - a) request a further re-test sample within two working days following the receipt of the notification by the ILCP provider, except where evidence is provided that the error was not related to performance of the analysis (e.g. was a transcription error); and
 - b) complete testing of re-test samples within five working days following receipt of a retest sample and send results back to the ILCP provider; and
 - c) in the case of a major (M) defect category performance rating notification in relation to a test or tests described in Table 1, in addition to the re-tests required in subclause (a) and (b) above, the laboratory must conduct re-tests in the intervening months between the minimum number of rounds per year if such re-test samples are supplied by the ILCP provider; and
 - d) as soon as practicable after receiving the major (M) defect category performance rating notification on a retest sample carry out and document an investigation as to the cause of the 'warning' or 'action' rating notification on the retest sample and take corrective action as necessary.



6.0 Critical (C) defect category and follow up action

- (1) The ILCP provide must assign a Critical (C) defect category in the event of:
 - a) a further 'warning' or 'action' rating notification on a retest sample carried out under clause 5.0; or
 - b) non-participation by a laboratory in the next round following a major (M) performance rating notification reported on that laboratory; or
 - c) failure by the laboratory to follow-up and report back to the ILCP provider on a major (M) defect category performance rating notification; or
 - d) failure by the laboratory to participate in the required number of ILCP rounds for the specified tests for which the laboratory is recognised.
- (2) In the event of a Critical (C) defect category performance rating notification being issued to the laboratory by the ILCP provider, the laboratory must:
 - a) resume participation in the required number of ILCP rounds relevant to all specified tests for which the laboratory is recognised; and
 - b) must demonstrate its capability by:
 - i) determining and undertaking corrective actions to ensure testing proficiency is regained; and
 - ii) undertaking any repeat testing required by the ILCP provider and reporting back to the ILCP provider on the results obtained and;
 - iii) undertaking any other actions required by the Director-General to reinstate laboratory competence.
- (3) In deciding what actions to impose under subclause 2 (b) iii), the Director General must consider the following matters:
 - a) the need to ensure that an ongoing and consistent standard of laboratory performance is maintained by all recognised laboratories conducting tests with public health significance or high levels of market access sensitivity; and
 - b) the need to enable analysis and comparison by MPI of laboratory testing of animal material and animal products concerned to underpin the development of new MPI strategies to improve risk management for key tests.

7.0 Resumption of ILCP testing following closure

(1) If a laboratory closure occurs following a major (M) defect category being assigned by the ILCP provider or a critical (C) defect category being assigned by the ILCP provider, the first ILCP round following the reopening of the laboratory must be treated as if it had followed immediately on the ILCP rounds prior to the closure.





Table 1: Potable Water Microbiology Comparative Programme (meat, poultry & seafood)

Ministry for Primary Industries

Manatū Ahu Matua

		Designated ILCP	
Numerical reference	CLT Test	ILCP Test Name	Minimum number of rounds per year
1.3	SPC 22°C/72 hours	Standard plate count SPC22	6
1.1.1	Total coliforms (coliform	Total coliforms, <i>E. coli</i>	6
11.1.2	bacteria), Escherichia coli	Total comonns, E. con	б
1.2	- Faecal coliforms	Faecal coliforms	
11.1.1	raecai comontis	raecai comoniis	6
1.6.1	Clostridium perfringens (including spores)	Clostridium perfringens	

Laboratories must complete six rounds of ILCP tests per year, for each method they are recognised for.

Table 2: Meat and Poultry Microbiology Comparative Programme

		Designated ILCP	
Numerical reference	CLT Test	ILCP Test Name	Minimum number of rounds per year
2.1.1	Aerobic Plate Count (APC)		
2.1.2	APC spread plate	ADC 20 (CDC)	11
2.1.3	APC Petrifilm	APC 30 (SPC)	11
2.1.4	APC spiral plater		
2.2.1	Escherichia coli, direct plate of Petrifilm	E. coli	11
2.2.2	Escherichia coli, Petrifilm		
2.3	Staphylococcus aureus	Staphylococcus aureus	2
2.8 & 2.8.1	Clostridium perfringens	Clostridium perfringens	2
2.9	Enterobacteriaceae	Enterobacteriaceae	2
2.10	Faecal coliforms	Faecal coliforms	2

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Table 3: Seafood Microbiology Comparative Programme

		Designated ILCP	
Numerical reference	CLT Test	ILCP Test Name	Minimum number of rounds per year
11.5.3	SPC, also known as Total Viable Count (TVC), Total Plate Count (TPC) or Aerobic Plate Count (APC)	APC (SPC)	4
11.6.7	APC	A (0 (0) 0)	·
11.8.6	APC		
11.5.10	Escherichia coli		
11.6.2	Escherichia coli	E. coli	4
11.8.1	Escherichia coli		
11.6.1	Faecal coliforms	Faecal coliforms	4
11.5.4	Staphylococcus aureus	Staphylococcus aureus	4

Table 4: Pathogen microbiology comparative programme (meat, poultry & seafood)

		Designated ILCP	
Numerical reference	CLT Test	ILCP Test Name	Minimum number of rounds per year
2.4.1	Salmonella		
2.4.2	Salmonella		2 rounds per year for
2.4.3	Salmonella	Salmonella	each Salmonella method the
11.5.11	Salmonella	- Saimonella	laboratory is
11.6.3	Salmonella		recognised for.
11.8.2	Salmonella		
2.6	Listeria monocytogenes		2 rounds per year for
11.8.5	Listeria monocytogenes	Listeria monocytogenes presence/absence and enumeration	each Listeria monocytogenes method the laboratory is recognised for.
22.1	Campylobacter	Campylobacter enumeration	2
23.1	Escherichia coli O157:H7		2
23.2	Non-O157 Shiga Toxin-producing Escherichia coli	Escherichia coli O157:H7 and Top 6 nSTECs	
23.3	Top 7 Shiga Toxin-producing Escherichia coli	and rop one rec	
23.1.1	Primary Escherichia coli O157:H7 culture isolation using immunomagnetic separation (IMS)	Escherichia coli O157:H7 isolation using IMS	2
11.5.6	Vibrio parahaemolyticus	All size a such as a such the	2
11.6.4	Vibrio parahaemolyticus	Vibrio parahaemolyticus	2



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Table 5: Meat chemistry comparative programme

		Designated ILC	P
Numerical reference	CLT Test	ILCP Test Name	Minimum number of rounds per year
3.1.1	Proximate analysis - Ash	Ash	6
3.1.2	Proximate analysis - Fat	Fat	6
3.1.3	Proximate analysis - Moisture	Moisture	6
3.1.4	Proximate analysis - Protein	Protein	6

The laboratory must complete 6 rounds per year for each of the two matrices (meat and bone meal, and meat paste).

Table 6: Tallow and Fats; rendered fats from ruminant materials comparative programme

		Designated ILCP	
Numerical reference	CLT Test	ILCP Test Name	Minimum number of rounds per year
4.01	Insoluble impurities	Insoluble impurities	2
4.02	Free fatty acids (FFA) (m/m % oleic acid)	FFA (m/m % oleic acid)	6
4.03	Peroxide	Peroxide	6
4.04	Moisture	Moisture	6

Table 7: Potable water chemistry comparative programme; all markets - surveillance of potable water in meat & game export premises

		Designated ILCP	
Numerical reference	CLT Test	ILCP Test Name	Minimum number of rounds per year
5.02	Conductivity	Conductivity	2
5.03	pH (hydrogen ion concentration)	рH	2
5.04	Turbidity	Turbidity	2
5.10	Ammoniacal nitrogen (ammonium)	Ammoniacal nitrogen (ammonium)	2
5.13	Nitrate	Nitrate	2
5.14	Nitrite	Nitrite	2



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Part 3 Abbreviations and Definitions

- AOAC = Association of Official Analytical Chemists
- AOCS = Official Methods and Recommended Practices of the American Oil Chemist's Society AOCS
- APC = Aerobic Plate Count
- APHA 4th edition 1970 = American Public Health Association. 1970. Recommended Procedures for the Examination of Sea Water and Shellfish, 4th edition, APHA, New York, N.Y. Note that this edition is out of print, but this is the edition specified by FDA. Library copies are held at ESR Christchurch and ESR Mt Albert
- APHA = Standard Methods for the Examination of Water and Wastewater (American Public Health Association) latest edition
- BMS RCS Specs = Animal Products (Specifications for Bivalve Molluscan Shellfish)
 Notice 2006
- COP = Code of Practice, Processing of Seafood Products
- E. coli = Escherichia coli
- EOLs = End-of-lay chickens
- FFA = free fatty acids
- FDA BAM = U.S. Food and Drug Administration Bacteriological Analytical Manual (BAM)
- HC Spec = Animal Products Notice: Specifications for Products Intended for Human Consumption (current edition)
- HPLC = high pressure liquid chromatography
- ILCP = inter-laboratory comparison programme
- ILCP provider means a supplier of proficiency testing services for laboratory testing who is accredited to ISO/IEC 17403
- IMS = immunomagnetic separation
- MF = membrane filtration
- MIMM = Meat Industry Microbiological Methods, latest edition
- MIRINZ 831 = Morris M.A., Methods for Determining the Physical and Chemical Properties of Products and Wastes of Rendering Departments <u>Volume 831 of MIRINZ (Series)</u>
- NCCP = National Chemical Contaminants Programme (dairy)
- NCRP = National Chemical Residue Programme (non-dairy)
- NMD = Animal Products Notice: Specifications for National Microbiological Database Programme (current edition)
- nSTEC = non-O157 Shiga Toxin-producing Escherichia coli
- OMAR = Overseas Market Access Requirement http://www.foodsafety.govt.nz/industry/exporting/market-access/omars.htm
- pH = hydrogen ion concentration
- RCS = Regulated Control Scheme
- SPC = Standard Plate Count
- spp. = species
- TBC = Total Bacterial Count





- Top 6 nSTEC = non-O157 Shiga Toxin-producing Escherichia coli which are positive for both the eae gene and for one or both stx genes (stx1, stx2) and are one of the following O serotypes: O26, O45, O103, O111, O121 and O145
- Top 7 STEC = Shiga Toxin-producing Escherichia coli which are positive for both the eae gene and for one or both stx genes (stx1, stx2) and are one of the following O serotypes: O26, O45, O103, O111, O121, O145 and O157
- TPC = Total Plate Count
- TVC = Total Viable Count



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Part 4 Composite Sampling

- (1) Microbiological composite testing must only be used to determine presence or absence of particular pathogens (not enumeration);
- (2) Microbiological or chemical composite sampling must provide:
 - a) clear identification of:
 - i. the type of product being sampled; and
 - ii. the production lot(s) or batch(es) or consignment(s) from which the product concerned is sampled; and
 - b) defined criteria for the selection of representative product to sample; and
 - c) defined procedures for mixing of samples to form the composite and the aliquot of the composite sample selected; and
 - d) robust validation for the analysis including:
 - i. the maximum sample/volume weight that is suitable for the test; and
 - ii. level of sensitivity that will be achieved by compositing compared to discrete sample testing; and
 - iii. clarity that when compositing the whole production lot(s) or batch(es) or consignment(s) of the product sampled will pass or fail the test.
- 3) The test report must clearly identify the nature of the composite;
- 4) Composite testing must not be undertaken where discrete testing of a specified quantity of representative samples is stipulated in the test method.