

Department of Fisheries Analytical Laboratory Unit's

Parameters and Methods Information 2018

Sr.	Parameters	Test Method	Matrix	Remark
	Micro			
1.	Total Plate Count	AOAC 990.12/2013	Fish & fishery product	ISO accredited
2.	Coliforms	AOAC 998.08/2013	Fish & fishery product	ISO accredited
3.	<i>E.coli</i>	AOAC 998.08/2013	Fish & fishery product	ISO accredited
4.	Coliforms , <i>E.coli</i>	ISO-9308-1 (2014-09-15)	Water & Ice	
5.	<i>Staphylococcus aureus</i>	AOAC 2003.11 /2013	Fish & fishery product	ISO accredited
6.	<i>Salmonella</i>	BAM 2016	Fish & fishery product	ISO accredited
7.	<i>Vibrio cholerae</i>	ISO/TS-21872-1 / 2017-06	Fish & fishery product	ISO accredited
8.	<i>V.parahaemolyticus</i>	ISO/TS-21872-1 / 2017-06	Fish & fishery product	
9.	<i>Clostridium perfringens</i>	ISO- 14189 : 2013-11-01	Water	
10.	<i>Listeria monocytogens</i>	ISO-11290-1 / 2017-05	Ready to Eat	ISO accredited
11.	<i>Enterococcus</i>	ISO-7899-2 (2000-04-15)	Water & Ice	
12.	<i>Shigella</i>	ISO-21567 / 2004	Fish & fishery product	
13.	Yeast & Mould	AOAC 997.02 / 2013	Dried Prawn / Fish	
	Chemical			
1.	Nitrofurantoin Metabolites	In house method T-NFR-01 based on Journal of Chromatography B, V 691, (1997)	Fish , Shrimp, Soft Shell Crab and Dried Fish	ISO accredited
2.	Malachite Green &	In house method based on Journal of	Fish & fishery product	

	Leuco-malachite Green Crystal Violet & Leuco-crystal violet	Chromatography B.,788 .pp.351-359		
3.	Chloramphenicol	EuroProxima B.V. 5091 CAP	Fish , Shrimp, Soft Shell Crab	ISO accredited
4.	Tetracycline	EuroProxima B.V. 5091 TC	Fish , Shrimp, Soft Shell Crab	ISO accredited
5.	Total Mercury	In house method based on AOAC Official Method 974.14: 2016, 20th Edition.	Fish , Shrimp, Soft Shell Crab	ISO accredited
6.	Total Cadmium	In house method based on AOAC Official Method 999.11:2016, 20th Edition.	Fish , Shrimp and Squid	ISO accredited
7.	Total Lead	In house method based on AOAC Official Method 999.11.2016, 20th Edition.	Fish , Shrimp and Dried Fish & prawn	ISO accredited
8.	Total Arsenic	In house method based on AOAC 963.21 (2016)	Fish & fishery product	
9.	Histamine	HPLC Fluorescence Method (MFRD-SEAFDEC)	Fish & fishery product	
10.	SO ₂	Monier-William's Method AOAC 962.16 (2000)	Prawn	
11.	Moisture	Oven Method /Moisture Balance Method In-house method based on Laboratory Manual, 2 nd edition 1992, SEAFDEC, MFRD	Fish & fishery product, Dried prawn shell dust, Aquatic animal Feed (Dried Feed pallet ,Shrimp Feed, fish meal, Rice Bean ,Soya Bean, Ground Nut, Wheat Flour, Rapessed Meal)	
12.	Crude Protein	Macro Kjeldahl Method In-house method based on Laboratory Manual, 2 nd edition 1992, SEAFDEC, MFRD	Fish & fishery product, Dried prawn shell dust, Aquatic animal Feed (Dried Feed pallet ,Shrimp Feed, fish meal, Rice Bean ,Soya Bean, Ground Nut, Wheat Flour,	

			Rapessed Meal)	
13.	Crude Fat	Soxhlet Extraction Method In-house method based on Fish Nutrition of Practical Guide 1997, AQD-SEAFDEC	Fish & fishery product, Dried prawn shell dust, Aquatic animal Feed (Dried Feed pallet ,Shrimp Feed, fish meal, Rice Bean ,Soya Bean, Ground Nut, Wheat Flour, Rapessed Meal)	
14.	Total Ash	Muffle Furnace Method In-house method based on Fish Nutrition of Practical Guide 1997, AQD-SEAFDEC	Fish & fishery product, Dried prawn shell dust, Aquatic animal Feed (Dried Feed pallet ,Shrimp Feed, fish meal, Rice Bean ,Soya Bean, Ground Nut, Wheat Flour, Rapessed Meal)	
15.	NaCl	Titrimetric In-house method based on Laboratory Manual, 2 nd edition 1992, SEAFDEC, MFRD	Fish & fishery product, Dried prawn shell dust, Aquatic animal Feed (Dried Feed pallet ,Shrimp Feed, fish meal, Rice Bean ,Soya Bean, Ground Nut, Wheat Flour, Rapessed Meal)	
16.	TVB-N	Commission Regulation (1022/2008/EC) Chapter 3	Fish & fishery product	
17.	Formaldehyde	Calorimetric Method (MFRD-SEAFDEC,1992)	Fish	
18.	Boric Acid	SEMI-Quantitative Analysis of Boric Acid(MFRD)	Jelly Fish	
19.	Pesticide (OC: DDT, Aldrin,Diieldrin,Heptachlor, Endrin, Alpha-BHC, Beta-BHC,Delta-BHC, Gamma-BHC, DDD,DDE)	In house method based on QuEChERS method EU/SANTE/11945/2015	Fish & fishery product	

