

**Department of Fisheries Analytical Laboratory Unit's
Parameters and Methods Information 2020**

Sr	Parameters	Test Method	Matrix	Remark
	Microbiological Parameters			
1.	Aerobic Plate Count	AOAC 990.12/2016	Fish & fishery product	ISO/IEC 17025 accredited
2.	Coliforms	AOAC 998.08/2016	Fish & fishery product	ISO/IEC 17025 accredited
3.	<i>E.coli</i>	AOAC 998.08/2016	Fish & fishery product	ISO/IEC 17025 accredited
4.	Coliforms , <i>E.coli</i>	ISO-9308-1 (2014-09-15)	Water & Ice	Non-Accredited
5.	<i>Staphylococcus aureus</i>	AOAC 2003.11 /2016	Fish & fishery product	ISO/IEC 17025 accredited
6.	<i>Salmonella</i>	FDA BAM Online ,2018 (Chapter 5)	Fish & fishery product	ISO/IEC 17025 accredited
7.	<i>Vibrio cholerae</i>	ISO/TS-21872-1 : 2017	Fish & fishery product	ISO/IEC 17025 accredited
8.	<i>V.parahaemolyticus</i>	ISO/TS-21872-1 / 2017	Fish & fishery product	Non-Accredited
9.	<i>Clostridium perfringens</i>	ISO- 14189 : 2013-11-01	Water	Non-Accredited
10	<i>Listeria monocytogens</i>	ISO-11290-1 : 2017	Ready to Eat	ISO/IEC 17025 accredited
11	<i>Enterococcus</i>	ISO-7899-2 Second Edition (2000-04-15)	Water & Ice	Non-Accredited
12	<i>Shigella</i>	ISO-21567 : 2004	Fish & fishery product	Non-Accredited
13	Yeast & Mould	AOAC 997.02	Dried Prawn / Fish	Non-Accredited

	Chemical Parameters			
1.	Nitrofurans Metabolites (AOZ, AMOZ, AHD, SEM)	In house method T-NFR-01 based on Journal of Chromatography B, V 691, (1997) (LC/MS/MS)	Fish & fishery product	ISO/IEC 17025 accredited
2.	Malachite Green & Leuco-malachite Green Crystal Violet & Leuco crystal violet	In house method based on Journal of Chromatography B.,788.pp.351-359	Fish & fishery product	Non-Accredited
3.	Chloramphenicol	Euro Proxima B.V. 5091 CAP (21) 07.10 by Elisa Technique	Fish & fishery product	ISO/IEC 17025 accredited
4.	Tetracycline	Euro Proxima B.V. 5091 TC(6) 05.13 by Elisa Technique	Fish & fishery product	ISO/IEC 17025 accredited
5.	Total Mercury	In house method based on AOAC Official Method 974.14: 2016	Fish & fishery product	ISO/IEC 17025 accredited
6.	Total Cadmium	In house method based on AOAC Official Method 999.11:2016	Fish & fishery product	ISO/IEC 17025 accredited
7.	Total Lead	In house method based on AOAC Official Method 999.11.2016	Fish & fishery product	ISO/IEC 17025 accredited
8.	Total Arsenic	In house method based on AOAC 963.21 (2016)	Fish & fishery product	Non-Accredited
9.	Histamine	HPLC Fluorescence Method (MFRD-SEAFDEC)	Fish & fishery product	Non-Accredited
10.	SO ₂	Monier-William's Method AOAC 962.16 (2000)	Prawn	Non-Accredited
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)	Non-Accredited
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)	Non-Accredited

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)	Non-Accredited
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)	Non-Accredited
15.	Salt	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)	Non-Accredited
16.	TVB-N	Commission Regulation (1022/2008/EC) Chapter -3	Fish & fishery product	Non-Accredited
17.	Formaldehyde	Calorimetric Method (MFRD- SEAFDEC,1992)	Fish	Non-Accredited
18.	Boric Acid	SEMI-Quantitative Analysis of Boric Acid (MFRD)	Jelly Fish	Non-Accredited
19.	Pesticide (OC: DDT, Aldrin, Dieldrin 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	Non-Accredited