

**Southeast Asian Fisheries Development Center**

**Aquaculture Department**

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01 SEAFDEC/AQD Publications

Brochures and flyers

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2024

# Analytical Services

Aquaculture Department, Southeast Asian Fisheries Development Center

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SEAFDEC Aquaculture Department. (2024). Analytical Services [Brochure]. Tigbauan, Iloilo, Philippines: Author.

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<http://hdl.handle.net/10862/6549>

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# ANALYTICAL SERVICES

Sample Type	Test / Parameter	Test Method	Fee per Sample (PHP)	Sample requirements
Soil	pH	Potentiometric	225.00	100 grams, dry and powdered in airtight plastic container / Ziplock pouch
	Iron	Ammonium Acetate Extraction	425.00	
	Organic Matter	Walkley-Black	320.00	
	Available Phosphorus	Modified Olsen's Method	430.00	
	Available Sulfur	Turbidimetric	400.00	



## Microbiological Analyses

Sample Type	Test / Parameter	Test Method	Fee per Sample (PHP)	Sample requirements
Water	Total Coliform Count  <small>PNS ISO/IEC 17025:2017 LA-2021-382A</small>	APHA-AWWA-WEF 9221B	300.00	500 ml in a container provided by the laboratory
	Fecal Coliform Count  <small>PNS ISO/IEC 17025:2017 LA-2021-382A</small>	APHA-AWWA-WEF 9221E	480.00	
	Heterotrophic Plate Count	Pour Plate Method, SMEWW	240.00	
	Total Coliform & <i>E.coli</i> (Colilert-18)	Enzyme Substrate Coliform Test, SMEWW	1,000.00	
	<i>Vibrio</i> spp.	BAM	480.00	
Food	Total Coliform Count	MTFT, BAM	300.00	500 g in sterile container or Ziplock pouch
	Fecal Coliform Count	MTFT, BAM	480.00	
	Aerobic Plate Count (APC)	Pour Plate Method, BAM	240.00	
	<i>Vibrio</i> spp.	BAM	480.00	
	<i>Salmonella</i> spp.	BAM	480.00	
	Yeast / mold count	BAM	300.00	
	<i>Staphylococcus aureus</i>	BAM	360.00	



## Electron Microscopy

*Note: Every additional photomicrograph will be charged PHP 60.00*

Sample Type	Test / Parameter	Test Method	Fee per Sample (PHP)	Sample requirements
Biological / Non-biological samples	Morphology (with 6 photomicrographs)	Transmission Electron Microscope	6,960.00	1 mm in at least 1 dimension
	Morphology (with 6 photomicrographs)	Scanning Electron Microscope	3,180.00	5 mm x 5 mm (L x W)



Chemical Analyses



Microbiological Analyses



Electron Microscopy




**All inquiries, clarifications, and samples must be coordinated directly with:**





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# Chemical Analyses

Sample Type	Test / Parameter	Test Method	Fee per Sample (PHP)	Sample requirements
Feeds	Moisture 	AOAC, 20th Ed. 930.15	160.00	50 grams dry sample in airtight plastic container / Ziplock pouch
	Crude Protein 	AOAC, 20th Ed. 984.13 (Modified)	665.00	
	Ash 	AOAC, 20th Ed. 942.05	275.00	
	Crude Fat	Soxtec Analyzer	540.00	
	Crude Fiber	Filter Bag Technology by Ankom Analyzer	785.00	
	Complete proximate analysis	See above	2,425.00	
	Calcium	AAS, AOAC Dry ash, AOAC	1,000.00 1,100.00	
	Copper	AAS, AOAC	1,000.00	
	Iron	AAS, AOAC	1,000.00	
	Phosphorus	Photometric, AOAC	1,515.00	
Feed ingredients	Moisture (Dry)	Moisture Analyzer	160.00	For dry sample, 50 grams. If wet, coordinate with the laboratory.
	Moisture (Wet)	Oven drying, AOAC	310.00	
	Crude Protein	Automated Kjelttec Analyzer	665.00	
	Ash	AOAC	275.00	
	Crude Fat	Soxtec Analyzer	540.00	
	Crude Fiber	Filter Bag Technology by Ankom Analyzer	785.00	
	Complete proximate analysis	See above	2,575.00* 2,425.00**	
	Calcium	AAS, AOAC Dry ash, AOAC	1,000.00 1,100.00	
	Copper	AAS, AOAC	1,000.00	
	Iron	AAS, AOAC	1,000.00	

Sample Type	Test / Parameter	Test Method	Fee per Sample (PHP)	Sample requirements
	Magnesium	AAS, AOAC	1,000.00	-do-
	Phosphorus	Photometric, AOAC	1,515.00	
Fish, marine products, meat and meat products	Moisture (Dry)	Moisture Analyzer	160.00	For dry sample, 50 grams. If wet, coordinate with the laboratory.
	Moisture (Wet)	Oven drying, AOAC	310.00	
	Crude Protein	Automated Kjelttec Analyzer	665.00	
	Ash	AOAC	275.00	
	Crude Fat	Soxtec Analyzer	540.00	
	Crude Fiber	Filter Bag Technology by Ankom Analyzer	785.00	
	Complete proximate analysis	See above	2, 575.00* 2, 425.00**	
Water	pH 	APHA-AWWA-WEF, 23rd Ed.	135.00	100 ml (PET bottle)
	Ammonia-Nitrogen 	APHA-AWWA-WEF, 23rd Ed.	250.00	100 ml (PET bottle)
	Nitrite-Nitrogen 	APHA-AWWA-WEF, 23rd Ed.	265.00	
	Phosphate-Phosphorus 	APHA-AWWA-WEF, 23rd Ed.	210.00	100 ml (sampling bottle provided by the lab)
	Nitrate+Nitrite-Nitrogen	Skalar Methods	375.00	100 ml (PET bottle)
	Nitrate-Nitrogen	Skalar Methods, SMEWW	640.00	
	Total Ammonia Nitrogen	Skalar Methods	515.00	
	Alkalinity	Titration	210.00	500 ml (PET bottle)
	Hardness	EDTA Titration, SMEWW	195.00	300 ml (DO bottle)
	Dissolved oxygen	Azide Modification, SMEWW	285.00	
	Total Suspended Solids	Oven drying, SMEWW	245.00	500 ml (PET bottle)
	Chlorophyll	Spectrophotometric, SMEWW	465.00	500 ml (dark colored PET bottle)
	Calcium	AAS, SMEWW	500.00	500 ml (PET bottle)
Copper	AAS, SMEWW	500.00		
Iron	AAS, SMEWW	500.00		
Magnesium	AAS, SMEWW	500.00		