



**BUREAU OF FISHERIES AND AQUATIC RESOURCES**  
**NATIONAL FISHERIES LABORATORY DIVISION (NFLD)**  
 Arcadia Bldg., 860 Quezon Avenue, Quezon City

### Laboratory Services, Sample Requirements & Fees

ANALYSIS	METHOD	DETECTION LIMIT	REQUIREMENTS	FEE per sample	RELEASING OF RESULTS
<b>I. National Fisheries Laboratory Division (NFLD)</b>					
<b>A. Fish Health Laboratory</b>					
<b>1. Banned Antibiotic Residue</b>					
a. Chloramphenicol (CAP)	ELISA	Meat: 0.025 ppb Feeds: 0.100 ppb	<b>Fresh Chilled/Frozen</b> <b>Finfishes:</b> At least 1 kg (2-3 pcs) <b>Stonefish/Pompano:</b> At least 1.3 kg (2 pcs) <b>Bamboo Shark:</b> At least 1.3 kg <b>Salmon Head/Belly:</b> At least 2 kg <b>Eel(Yellow/Black):</b> At least 1.1 kg (2-3 pcs) <b>Shrimp (Head-on):</b> At least 1.3 kg <b>Sea Mantis:</b> At least 1.2 kg <b>Lobsters (Headless):</b> At least 800 g  <b>Canned/Pasteurized/Chilled</b> <b>Crab Meat:</b> At least 300 g  <b>Live</b> <b>Geoduck:</b> At least 1.5 kg (2 pcs) <b>Crabs:</b> At least 1.2 kg (2-3 pcs with claws attached) <b>Nylon Shell:</b> 1.2 kg <b>Other Shells:</b> At least 1.5 kg  <b>Kept Dry</b> <b>Aquatic Feeds:</b> At least 300 g	Php 1,000	30 working days upon receipt and payment
b. Nitrofurans	ELISA	0.100 ppb		Php 1,000	30 working days upon receipt and payment
b.1 AOZ		0.200 ppb		Php 1,000	
b.2 AMOZ				Php 1,000	
c. Aflatoxin (feed sample)		2.00 ppb			
<b>2. Molecular Diagnostics (For Finfishes, Crustaceans, Mollusc &amp; Bivalves)</b>					
a. RNA (IMNV, YHV/GAV, PvNV, TSV, MrNV, KHV)	<b>Conventional PCR</b> (IMNV, YHV/GAV, PvNV, TSV, MrNV, WSSV, IHNV, EMS/AHPND, MBV, EHP, NHPB)  <b>Real Time PCR</b> (WSSV, TSV, YHV, NHPB, EHP, AHPND)  <b>Insulated Isothermal PCR</b> (KHV, IRIDO, EHP, AHPND, WSSV, IMNV, IHNV, YHV, TSV, NHPB, PvNV)	Qualitative	<b>Shrimp:</b> At least 300 pcs for fry/pl or at least 5 pcs adult  <b>Finfish:</b> At least 200 pcs fry/at least 10 moribund fish	Php 600	3 working days after receipt and payment
b. DNA (WSSV, IHNV, EMS/AHPND, MBV, EHP, NHPB, IRIDO)				Php 600	



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<b>3. Parasitological Examination</b>	Microscopic	Qualitative	<b>Live</b> <b>Finfish:</b> At least 30 pcs <b>Eel:</b> At least 30 pcs (+15 cm)	Php 75	2 days after receipt and payment
<b>4. Bacterial Count (Luminous and <i>Vibrio</i>)</b>	Serial Dilution	<b>Luminous:</b> <math>2.0 \times 10^2</math> cfu/mL  <b><i>Vibrio</i></b> <math&gt;2.2 -="" 1.3="" 10^3="" 10^4&lt;="" \times="" math=""> (Normal) <math&gt;1.5 -="" 10^4="" 10^4&lt;="" 6.0="" \times="" math=""> (Slightly High) <math&gt;7.5 -="" 10^4="" 10^4&lt;="" 9.5="" \times="" math=""> (High) <math&gt;1.0 -="" 10^5="" 10^5&lt;="" 5.5="" \times="" math=""> (Very High)</math&gt;1.0></math&gt;7.5></math&gt;1.5></math&gt;2.2>	<b>Water:</b> Placed in a sterile bottle and must be submitted within 6 hours from the time of collection  <b>Shrimp:</b> At least 150 pcs juvenile or 30 pcs adult  <b>Soil (Air Dried):</b> At least 1 kg	Php 100	7 working days after receipt and payment
<b>5. Gross or Microscopic Exam (Prawn Fry)</b>	Microscopic	Qualitative	At least 300 pcs for fry/pl or at least 5 pcs adult	Php 100	2 days upon receipt and payment
<b>6. Physico-Chemical (Salt, Brackish or Fresh Water intended for Aquaculture)</b>					
a. pH	Lamotte pH meter	0.00-14.01 ppm	<b>Water:</b> At least 1 L submitted within 3-4 hours from the time of collection	Php 30	2 days upon receipt and payment
b. Acidity/Alkalinity	Unit dose Vial	0.200 ppm		Php 100	
c. Carbon Dioxide	Titration	Quantitative		Php 100	
d. Dissolved Oxygen (DO)	Winkler	0.0-10.0 ppm		Php 150	
e. Ammonia	Salicylate	0-1.00 ppm		Php 180	
f. Nitrate/Nitrite	Colorimetric	FW: 0.05-0.80 ppm; SW: 0.25-10.0 ppm/ FW: 0.05-0.80 ppm		Php 180	
g. Phosphate		Ascorbic Acid Reduction		0.00-3.00 ppm	
h. Total Hardness	UDV	0-450 ppm		Php 300	
i. Salinity	Refractometer	0-100 ppm		Php 30	
<b>B. Fisheries Product Testing Laboratory</b>					
<b>1. Heavy Metals</b>					
a. Cadmium (Cd)	GFA AAS	0.000084 ppm	<b>Fresh/Chilled/Frozen Cephalopods:</b> At least 1 kg <b>Mollusks:</b> At least 1.5 kg w/ shell and at least 1 kg meat <b>Crustaceans:</b> At least 1.5 kg w/ shell and at least 1 kg meat <b>Fish:</b> At least 1 kg	Php 1,200	12 working days after receipt and payment
b. Lead (Pb)		0.000025 ppm		Php 1,200	
c. Mercury (Hg)	MVU-AAS	0.0054 ug/g		Php 1,200	



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2. pH	Potentiometric	Good Quality: 6.2-6.9 Sour/Putrid: 5.2&below	<b>Fresh/Chilled/Frozen Cephalopods:</b> At least 500 g	Php 50	10-12 working days after receipt and payment
3. Water activity (Aw)	Novasina Aw Measuring Value	Heavily Salted Fish: 0.6-0.7 Bagoong PNS/FDA 36:2012: 0.85	<b>Mollusks:</b> At least 1 kg w/ shell and at least 500 g meat	Php 75	
4. Sodium Chloride (NaCl)	Titrimetry-Volhard	Fresh: 0.2-3% Dried Fish: 8-10% Smoked: 3-5% Bagoong: 8-15%	<b>Crustaceans:</b> At least 1 kg w/ shell and at least 500 g meat  <b>Fish:</b> At least 500 g	Php 160	
<b>5. Microbial Examination</b>					
a. Yeast/Mold	BAM AOAC, 2001	<b>Fish &amp; Fishery Product:</b> 1,000 cfu/g	<b>Dried Fish and Fishery Products:</b> At least 1 kg	Php 250	7 working days after receipt and payment
b. APC		<b>Fish &amp; Fishery Product:</b> 500,000 cfu/g	<b>Fresh/Chilled/Frozen Cephalopods:</b> At least 1 kg  <b>Mollusks:</b> At least 1.5 kg w/ shell and at least 1 kg meat  <b>Crustaceans:</b> At least 1.5 kg w/ shell and at least 1 kg meat  <b>Fish:</b> At least 1 kg  <b>Water:</b> At least 1 L contained in a sterilized bottle jar  <b>Ice:</b> At least 1 kg	Php 200	
c. <i>Staphylococcus aureus</i>		<b>Fish &amp; Fishery Product:</b> 1,000 cfu/g		Php 300	
d. Fecal Coliform		<b>Fish:</b> 11 mpn/g <b>Shellfish:</b> 16 mpn/g <b>Water:</b> <1.1 mpn/100 mL		Php 250	
e. E. coli		<b>Fish &amp; Fishery Product:</b> 11 mpn/g <b>Shellfish:</b> 16 mpn/g <b>Live Shellfish:</b> 23 mpn/g <b>Water:</b> <1.1 mpn/100 mL		Php 350	
f. Heterotrophic Plate Count		<b>Ice and Water:</b> <1 cfu/mL		Php 200	
g. Salmonella		<b>Fish &amp; Fishery products:</b> Absent in 25 g		Php 400	
h. Enterococci/Fecal Streptococci		<b>Water:</b> <1.1 mpn/100 mL		Php 350	



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<b>C. Aquatic Toxicology Laboratory</b>					
1. Paralytic Shellfish Toxin (PST)	AOAC Method No. 959.08  AOAC Method No. 2011.27	35 ug/100 g  0.18 ug/100g	Meat: 250 g w/ shell: 1 kg	Php 600	3-5 working days upon payment and receipt
2. Amnesic Shellfish Poisoning (ASP)	AOAC Method No. 991.26	0.2 ug/mL		Php 2,500	5-7 working days upon payment and receipt
3. Tetrodotoxin (TTX)	Food Hygiene Examination Manual Vol. 2, (1978). pp.232-244	1 ug/g	Meat: 250 g w/ shell: 1 kg	Php 600	3-5 working days upon payment and receipt
4. Diarrhetic Shellfish Poisoning (DSP)	Manual on Harmful Marine Microalgae: IOC Manuals and Guides No. 33	Qualitative		Php 3,000	7 working days upon payment and receipt
5. Ciguatera	Manual on Harmful Marine Microalgae: IOC Manuals and Guides No. 33	< 5 ng		Php 4,000	7 working days upon payment and receipt
6. Cyanide	APHA Method No. 4500	0.04 ppm		Php 450	3-5 working days upon payment and receipt
7. Formaldehyde	Spectrophotometric Method Nash Reagent	0.60 ug/g		At least 5 pcs	Php 250