



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

|                                  |                            |  |                     |                         |
|----------------------------------|----------------------------|--|---------------------|-------------------------|
| Document No.<br><b>ML 7.2-01</b> | Revision No.<br><b>4</b>   | Effectivity Date<br><b>06/11/2023</b>        | <b>MASTER LISTS</b> | Page:<br><b>1 of 12</b> |
| SECTION:<br><b>7.0</b>           | Sub-Section:<br><b>7.2</b> | SUB-TITLE:<br><b>Master List of Analyses</b> |                     |                         |

| ANALYSIS                            | METHOD | LIMIT OF DETECTION (LOD) / LIMIT OF QUANTIFICATION (LOQ)  | REQUIREMENTS  | FEE PER SAMPLE (PhP) | RELEASING RESULTS                                  | PNS ISO/IEC 17025:2017 ACCREDITED  |
|-------------------------------------|--------|---|---|----------------------|--|--|
| <b>FISH HEALTH LABORATORY (FHL)</b> |        |   |   |                      |  |  |
| <b>A. Residue Analysis</b>          |        |   |   |                      |  |  |
| 1. Chloramphenicol (CAP)            | ELISA  | LOQ:<br>Shrimp: 0.020 ppb<br>Finfish: 0.014 ppb<br>Crab: 0.014 ppb<br>Lobsters: 0.007 ppb<br>Shellfish: 0.023 ppb | Fresh Chilled/Frozen<br><br>-Whole Finfish (Milkfish, Tilapia, Stonefish, Eel, Grouper, Pompano etc.):<br>At least 1.3 kg (2-3 pcs)   | 1,000.00             | Fifteen (15) working days after sample preparation | <i>Accredited for CAP, AOZ and AMOZ in Food and Agricultural Products for the following sample type:</i><br><br><i>A. Fish</i><br><i>B. Crustaceans (Shrimps, Lobsters, Sea Mantis etc.)</i><br><i>C. Mollusks</i><br><i>D. Derived Products</i><br><br><i>Using RIDASCREEN Commercial Kit</i><br><br><i>Accreditation No.: LA-2019-345A</i><br><i>Scope Reference: ATEL-0423-345A</i> |
|                                     |        | Feeds: 0.100 ppb  | -Bamboo Shark: At least 1.3 kg.<br><br>-Salmon Head/Belly: At least 2 kg.<br><br>-Shrimp (Head-on): At least 1.3 kg.<br><br>-Sea Mantis: At least 1.2 kg.<br><br>-Lobsters (Headless): At least 800 g. (at least 2 pieces)<br><br>-Canned/Pasteurized/Chilled Crab Meat: At least 300 g | 1,000.00             |  |  |



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|                                  |                            |  |                     |                         |
|----------------------------------|----------------------------|--|---------------------|-------------------------|
| Document No.<br><b>ML 7.2-01</b> | Revision No.<br><b>4</b>   | Effectivity Date<br><b>06/11/2023</b>        | <b>MASTER LISTS</b> | Page:<br><b>2 of 12</b> |
| SECTION:<br><b>7.0</b>           | Sub-Section:<br><b>7.2</b> | SUB-TITLE:<br><b>Master List of Analyses</b> |                     |                         |

|                       |              |   |  |                 |  |
|-----------------------|--------------|---|--|-----------------|--|
|                       |              |   | Live<br>-Geoduck: At least 1.5 kg (at least 2 pcs)<br><br>-Crabs: At least 1.2 kg (2-3 pcs with claws attached)<br><br>-Nylon Shell: 1.2 kg<br><br>-Other Shells: At least 1.5 kg<br><br>Kept Dry<br>Aquatic Feeds: At least 300 g |                 |  |
| <b>2. Nitrofurans</b> |              |   |  |                 |  |
| <b>a. AOZ</b>         | <b>ELISA</b> | Shrimp: 0.16 ppb<br>Finfish: 0.22 ppb<br>Crab: 0.17 ppb<br>Lobsters: 0.1 ppb<br>Shellfish: 0.2 ppb<br>Eel: 0.24 ppb   |  | <b>1,000.00</b> |  |
| <b>b. AMOZ</b>        |              | Shrimp: 0.13 ppb<br>Finfish: 0.48 ppb<br>Crab: 0.36 ppb<br>Lobsters: 0.60 ppb<br>Shellfish: 0.36 ppb<br>Eel: 0.39 ppb |  | <b>1,000.00</b> |  |
| <b>3. Aflatoxin</b>   |              | Feeds: 2.00 ppb   |  | <b>1,000.00</b> |  |



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|                                  |                            |  |                     |                         |
|----------------------------------|----------------------------|--|---------------------|-------------------------|
| Document No.<br><b>ML 7.2-01</b> | Revision No<br><b>4</b>    | Effectivity Date<br><b>06/11/2023</b>        | <b>MASTER LISTS</b> | Page:<br><b>3 of 12</b> |
| SECTION:<br><b>7.0</b>           | Sub-Section:<br><b>7.2</b> | SUB-TITLE:<br><b>Master List of Analyses</b> |                     |                         |

| <b>B. Molecular Diagnostic</b>  |  |             |   |                     |  |  |
|---|--|-------------|---|---------------------|--|--|
| <p>1. for Crustaceans (Shrimp, Crabs, etc.)</p> <p><b>DNA</b><br/>-WSSV, IHNV, EHP, AHPND, MBV, and NHPB</p> <p><b>RNA</b><br/>- TSV, IMNV, YHV/GAV, MRNV, PVNV, CMNV, and DIV1</p> | <p><b>Conventional PCR</b><br/>(WSSV, IHNV, EHP, AHPND, MBV, NHPB, TSV, IMNV, YHV/GAV, MRNV, PVNV and CMNV)</p> <p><b>Real Time PCR</b><br/>(WSSV, IHNV, EHP, IMNV, TSV, YHV and AHPND)</p> <p><b>Insulated Isothermal PCR-IIPCR</b><br/>(DIV 1)</p> | Qualitative | <p>Live, chilled, frozen or FIXED in 95% Ethanol</p> <p>Shrimp: At least 300 pcs for fry/pl or at least 5 pcs adult</p> <p>Crabs: At least 2pcs</p> | 600.00 per analysis | Five (5) working days after sample receipt | <p><i>Accredited for the Identification of pathogens in plants and animals (Crustaceans) for the following microbial pathogens:</i></p> <p><i>A. White Spot Syndrome Virus (WSSV)</i><br/><i>B. Infectious Hypodermal and Hematopoietic Necrosis Virus (IHNV)</i><br/><i>C. Enterocytozoon hepatopenaei (EHP)</i><br/><i>D. Vibrio parahaemolyticus (AHPND)</i><br/><i>E. Necrotising Hepatopancrea Bacteria (NHPB)</i><br/><i>F. Monodon Biculovirus (MBV)</i><br/><i>G. Infectious Myonecrosis Virus (IMNV)</i><br/><i>H. Taura Virus (TSV)</i><br/><i>I. Macrobrachium rosenbergii nodavirus (MRNV)</i><br/><i>J. Yellow Head Virus (YHV)</i><br/><i>K. Penaeus vannamei nodavirus (PVNV)</i><br/><i>L. Covert Mortality Nodavirus (CMNV)</i><br/><i>M. Gill-Associated Virus (GAV)</i></p> |



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|                                  |                            |  |                     |                         |
|----------------------------------|----------------------------|--|---------------------|-------------------------|
| Document No.<br><b>ML 7.2-01</b> | Revision No<br><b>4</b>    | Effectivity Date<br><b>06/11/2023</b>        | <b>MASTER LISTS</b> | Page:<br><b>4 of 12</b> |
| SECTION:<br><b>7.0</b>           | Sub-Section:<br><b>7.2</b> | SUB-TITLE:<br><b>Master List of Analyses</b> |                     |                         |

|  |  |             |  |                     |   |  |
|--|--|-------------|--|---------------------|---|--|
|  |  |             |  |                     |   | <i>Using Conventional PCR Commercial Kit</i><br><br><i>Accreditation No.: LA-2019-346A</i><br><i>Scope Reference: ATEL-0423-346A</i>   |
| 2. for Finfishes (Milkfish, Tilapia, Koi, etc.)<br><br><b>DNA</b><br>-KHV, Irido<br><br><b>RNA</b><br>- TiLV, VNN and SVCV | <b>Conventional PCR</b><br>(KHV, Irido, SCVC and VNN)<br><br><b>Insulated Isothermal PCR-IIPCR</b><br>(TiLV and Irido-G) | Qualitative | -Live, Chilled, frozen or FIXED in 95% Ethanol<br><br>-At least 30 pcs fry/fingerlings<br><br>-At least 10 juvenile/ grow out moribund or fish exhibiting clinical signs of a disease                              | 600.00 per analysis | Five (5) working days after sample receipt  | <i>Accredited for the Identification of pathogens in plants and animals (Finfish):</i><br><br><i>A. Iridovirus</i><br><br><i>Using Conventional PCR Commercial Kit</i><br><br><i>Accreditation No.: LA-2019-346A</i><br><i>Scope Reference: ATEL-0423-346A</i> |
| 3. Parasitological Examination   | Microscopic  | Qualitative | <b>Must be LIVE</b><br>Finfish: At least 30 pcs<br><br>Lobster: At least 10 pcs with carapace length >10cm<br><br>Eel: At least 30 pcs (>16 cm)<br><br>Shrimp: At least 300 pcs for fry/pl or at least 5 pcs adult | 75.00               | Three (3) working days after sample receipt | N/A  |



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|                                  |                            |  |                     |                         |
|----------------------------------|----------------------------|--|---------------------|-------------------------|
| Document No.<br><b>ML 7.2-01</b> | Revision No<br><b>4</b>    | Effectivity Date<br><b>06/11/2023</b>        | <b>MASTER LISTS</b> | Page:<br><b>5 of 12</b> |
| SECTION:<br><b>7.0</b>           | Sub-Section:<br><b>7.2</b> | SUB-TITLE:<br><b>Master List of Analyses</b> |                     |                         |

|  |                  |  |  |               |   |     |
|--|------------------|--|--|---------------|---|-----|
| 4. Gross Morphological/Necropsy /Microscopic                           | Microscopic      | Qualitative  |  | 100.00        | Three (3) working days after sample receipt | N/A |
| 5. Bacterial Count (Luminous and Vibrio)                               | Serial Dilution  | Quantitative   | Water: At least 1 L submitted within 3-4 hours from the time of collection<br><br>Shrimp: At least 30 pcs fry/fingerlings and at least 10 juvenile/ grow out moribund or fish exhibiting clinical signs of a disease | 100.00        |   |     |
| 6. Physico-Chemical (Salt, Brackish or Fresh intended for Aquaculture) |                  |  |  |               |   |     |
| a. pH  | Lamotte pH meter | 0.00-14.01 ppm   | Water: At least 1 L submitted within 3-4 hours from the time of collection   | 30.00         | N/A   |     |
| b. Acidity/Alkalinity  | Unit dose Vial   | 0.200 ppm  |  | 100.00        |   |     |
| c. Carbon Dioxide  | Titration        | Quantitative   |  | 100.00        |   |     |
| d. Dissolved Oxygen (DO)   | Winkler          | 0.0-10.0 ppm   |  | 150.00        |   |     |
| e. Ammonia   | Salicylate       | 0-1.00 ppm   |  | 180.00        |   |     |
| f. Nitrate/Nitrite   | Colorimetric     | FW: 0.05-0.80 ppm;<br>SW: 0.2510.0 ppm/<br>FW: 0.05-0.80 ppm |  | 180.00        |   |     |
| g. Phosphate   |                  | Ascorbic Acid Reduction                                      |  | 0.00-3.00 ppm |   |     |
| h. Total Hardness  | UDV              | 0-450 ppm  |  | 300.00        |   |     |



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|                                  |                            |  |                     |                         |
|----------------------------------|----------------------------|--|---------------------|-------------------------|
| Document No.<br><b>ML 7.2-01</b> | Revision No<br><b>4</b>    | Effectivity Date<br><b>06/11/2023</b>        | <b>MASTER LISTS</b> | Page:<br><b>6 of 12</b> |
| SECTION:<br><b>7.0</b>           | Sub-Section:<br><b>7.2</b> | SUB-TITLE:<br><b>Master List of Analyses</b> |                     |                         |

|   |  |             |  |                             |  |     |
|---|--|-------------|--|-----------------------------|--|-----|
| i. Salinity   | Refractometer  | 0-100 ppm   |  | 30.00                       |  |     |
| 7. Bacterial Identification for Finfish<br>a. API 20 Strep<br>b. API Staph<br>c. API 20 E<br>d. API 20 NE | Analytical Profile Index   | Qualitative | -At least 30 pcs LIVE fry/fingerlings/ at least 10 juvenile/ grow out moribund or fish exhibiting clinical signs of a disease<br><br>- If bacterial isolates are in a culture media, it should be transported in a refrigeration temperature with a sealed packaging. Pertinent details about the sample should be complete and will be assessed first before the receipt of samples | 200 per analysis per sample | Ten (10) working days after sample receipt         | N/A |
| 8. Histopathology   | Histotechniques and microscopic examination of histological slides | Qualitative | -At least 30 pcs LIVE fry/fingerlings/ at least 10 juvenile/ grow out moribund or fish exhibiting clinical signs of a disease<br><br>- At least 100 pcs LIVE fry/PL for shrimp<br><br>- At least 10 moribund juvenile/adult shrimp   | 500.00                      | Fifteen (15) working days after sample preparation | N/A |



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|                                  |                            |  |                     |                         |
|----------------------------------|----------------------------|--|---------------------|-------------------------|
| Document No.<br><b>ML 7.2-01</b> | Revision No<br><b>4</b>    | Effectivity Date<br><b>06/11/2023</b>        | <b>MASTER LISTS</b> | Page:<br><b>7 of 12</b> |
| SECTION:<br><b>7.0</b>           | Sub-Section:<br><b>7.2</b> | SUB-TITLE:<br><b>Master List of Analyses</b> |                     |                         |

|  |                             |  |   |        |   |     |
|--|-----------------------------|--|---|--------|---|-----|
|  |                             |  | <p>- If samples are already fixed, it should be properly transported with its pertinent details attached. Samples will be assessed first before the samples are received.</p> <p><b>FIXATIVE:</b><br/>Shrimp: Davidson's fixative</p> <p>Fish: 10% Neutral buffered formalin, 10% buffered formalin, bouin's solution</p> |        |   |     |
| <b>FISHERIES PRODUCT TESTING LABORATORY (FPTL)</b> |                             |  |   |        |   |     |
| 1. pH  | Potentiometric              | Good Quality: 6.2-6.9<br>Sour/Putrid: 5.2&below                      | Fresh/Chilled/Frozen:<br>Cephalopods: At least 500 g  | 50.00  | Seven (7) working days after sample receipt | N/A |
| 2. Water activity (Aw)                             | Novasina Aw Measuring Value | Heavily Salted Fish: 0.6-0.7<br>Bagoong PNS/FDA 36:2012: 0.85        | Mollusks: At least 2 kg w/ shell and at least 500 g meat<br>Crustaceans: At least 1 kg w/ shell and at least 500 g meat   | 75.00  | Ten (10) working days after sample receipt  |     |
| 3. Sodium Chloride (NaCl)                          | Titrimetry-Volhard          | Fresh: 0.2-3%<br>Dried Fish: 8-10%<br>Smoked: 3-5%<br>Bagoong: 8-15% | Fish: At least 500 g;<br>Dried Fish and Fishery Products: At least 1 kg   | 160.00 |   |     |



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|                                  |                            |  |                     |                         |
|----------------------------------|----------------------------|--|---------------------|-------------------------|
| Document No.<br><b>ML 7.2-01</b> | Revision No<br><b>4</b>    | Effectivity Date<br><b>06/11/2023</b>        | <b>MASTER LISTS</b> | Page:<br><b>8 of 12</b> |
| SECTION:<br><b>7.0</b>           | Sub-Section:<br><b>7.2</b> | SUB-TITLE:<br><b>Master List of Analyses</b> |                     |                         |

|                                 |                           |                                       |  |                     |  |   |
|---------------------------------|---------------------------|---------------------------------------|--|---------------------|--|---|
| 4. Moisture                     | AOAC 950.46               | Quantitative                          |  | 85.00               |  |   |
| <b>5. Heavy Metals</b>          |                           |                                       |  |                     |  |   |
| a. Cadmium (Cd)                 | GFA AAS                   | 0.000084 ppm                          | <b>A. For EU and US Export and Plant Verification</b><br><br>Fresh/Chilled/Frozen<br>NINE (9) samples per batch or production code with 250 grams each.<br><br><b>B. For other purposes</b><br><br>Cephalopods: At least 1 kg<br><br>Mollusks: At least 1.5 kg w/ shell and at least 1 kg meat<br><br>Crustaceans: At least 1.5 kg w/shell and at least 1 kg meat<br><br>Fish: At least 1 kg | 1,200.00 per sample | Fifteen (15) working days after sample preparation | N/A   |
| b. Lead (Pb)                    |                           | 0.000025 ppm                          |  | 1,200.00 per sample |  |   |
| c. Mercury (Hg)                 | MVU-AAS                   | 0.0054 ug/g                           |  | 1,200.00 per sample |  |   |
| 6. Histamine                    | HPLC-FLD                  | 0.0310 mg/kg                          |  | 450.00 per sample   |  |   |
| <b>7. Microbial Examination</b> |                           |                                       |  |                     |  |   |
| a. APC                          | BAM AOAC, 2001 (for meat) | Fish & Fishery Product: 500,000 cfu/g | <b>A. For EU and US Export and Plant Verification</b>  | 200.00              | Ten (10) working days after sample receipt         | <i>I. Accredited for <b>Aerobic Plate Count (APC)*, Total and Fecal Coliform**</b> for the following:</i> |
| b. <i>Staphylococcus aureus</i> | SMEWW (for ice and water) | Fish & Fishery Product: 1,000 cfu/g   | Fresh/Chilled/Frozen   | 300.00              |  |   |





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|                                  |                            |  |                     |                         |
|----------------------------------|----------------------------|--|---------------------|-------------------------|
| Document No.<br><b>ML 7.2-01</b> | Revision No<br><b>4</b>    | Effectivity Date<br><b>06/11/2023</b>        | <b>MASTER LISTS</b> | Page:<br><b>9 of 12</b> |
| SECTION:<br><b>7.0</b>           | Sub-Section:<br><b>7.2</b> | SUB-TITLE:<br><b>Master List of Analyses</b> |                     |                         |

|  |  |   |        |  |
|--|--|---|--------|--|
| c. Fecal Coliform for water and ice                  | Fish: 11 mpn/g<br>Shellfish:<br>16 mpn/g<br>Water: <1.1 mpn/100 mL   | FIVE (5) samples per batch or production code with 250 grams each.<br><b>B. For other purposes</b><br>Dried Fish and Fishery Products:<br>At least 1 kg                       | 250.00 | <i>A. Fish and Shellfish products</i><br><i>B. Fresh frozen fish and cold smoked</i><br><i>C. Pre-cooked breaded fish</i><br><i>D. Frozen raw crustaceans</i><br><i>E. Cooked, chilled and frozen crab meat</i><br><i>F. Fish and shellfish products hermetically sealed containers (thermally processed)</i><br><br><i>*With Pour Plate Method Bacteriological Analytical Manual (BAM)</i><br><i>**With MPN Method Bacteriological Analytical Manual (BAM)</i><br><br><i>Accreditation No.: LA-2019-346A</i><br><i>Scope Reference: ATEL-0423-346A</i><br><br><i>II. Accredited for Heterotrophic Plate</i> |
| d. E. coli   | Fish & Fishery Product:<br>11 mpn/g<br>Shellfish:<br>16 mpn/g Live<br>Shellfish:<br>23 mpn/g<br>Water: <1.1 mpn/100 mL | Fresh/Chilled/Frozen<br>Cephalopods: At least 1 kg<br>Mollusks: At least 2 kg w/ shell and at least 1 kg meat<br>Crustaceans: At least 1.5 kg w/ shell and at least 1 kg meat | 350.00 |  |
| e. Heterotrophic Plate Count (HPC) for water and ice | Ice and Water: <1 cfu/mL   | Fish: At least 1 kg<br>Water: At least 1 L contained in a sterilized bottle jar   | 200.00 |  |
| f. Salmonella  | Fish & Fishery products:<br>Absent in 25 g   | Ice: At least 1 kg  | 400.00 |  |
| g. Enterococci/Fecal Streptococci                    | Water: <1.1 mpn/100 mL   |   | 350.00 |  |



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|                                  |                            |  |                     |                          |
|----------------------------------|----------------------------|--|---------------------|--------------------------|
| Document No.<br><b>ML 7.2-01</b> | Revision No<br><b>4</b>    | Effectivity Date<br><b>06/11/2023</b>        | <b>MASTER LISTS</b> | Page:<br><b>10 of 12</b> |
| SECTION:<br><b>7.0</b>           | Sub-Section:<br><b>7.2</b> | SUB-TITLE:<br><b>Master List of Analyses</b> |                     |                          |

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|--|--|--|--|--|--|
|  |  |  |  |  | <p><b>Count (HPC)<sup>***</sup>, Total Coliform<sup>****</sup> and Fecal Coliform<sup>*****</sup> for the following:</b></p> <p>A. Potable Water<br/>B. Source Water<br/>C. Others Ice</p> <p><b>***With Pour Plate Method, 9215 SMEWW 23<sup>rd</sup> ed 2017</b></p> <p><b>****With MTFT, 9221B SMEWW 23<sup>rd</sup> ed 2017</b></p> <p><b>*****With MTFT, 9221E SMEWW 23<sup>rd</sup> ed 2017</b></p> <p>Accreditation No.: LA-2019-346A<br/>Scope Reference: ATEL-0423-346A</p> |
|--|--|--|--|--|--|

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|                                  |                            |  |                     |                          |
|----------------------------------|----------------------------|--|---------------------|--------------------------|
| Document No.<br><b>ML 7.2-01</b> | Revision No<br><b>4</b>    | Effectivity Date<br><b>06/11/2023</b>        | <b>MASTER LISTS</b> | Page:<br><b>11 of 12</b> |
| SECTION:<br><b>7.0</b>           | Sub-Section:<br><b>7.2</b> | SUB-TITLE:<br><b>Master List of Analyses</b> |                     |                          |

**AQUATIC TOXICOLOGY LABORATORY (ATL)**

|                                     |  |                             |  |          |   |  |  |
|-------------------------------------|--|-----------------------------|--|----------|---|--|--|
| 1. Paralytic Shellfish Toxin (PST)  | ELISA                                  | 0.3 ug STX equivalent/100 g | SHELLFISH<br>Meat: at least 250 g.<br><br>With shell: at least 1.5 kg.<br><br>CRUSTACEAN (ALAMANG): at least 250 grams | 600.00   | Five (5) working days after sample receipt  | <i>Accredited for<br/><b>Paralytic Shellfish Toxin (PST)</b> in<br/>SHELLFISH MEAT</i> |  |
|                                     | RBA                                    | ~ 5 µg/100g                 |  | 2,500.00 | Seven (7) working days after sample receipt   |  |  |
| 2. Amnesic Shellfish Toxin (AST)    | AOAC Method No. 991.26                 | 0.2 ug/mL                   |  | 3,000.00 |   |  |  |
| 3. Diarrhetic Shellfish Toxin (DST) | Protein Phosphatase 2A Assay           | 63 ug/Kg                    |  | 4,500.00 |   |  |  |
| 4. Brevetoxin                       | IAEA TechDOC 1729                      | < 5 ng/g                    |  | 4,000.00 | Fifteen (15) working days after completion of the required number of samples per filter plate |  | <i>Accreditation No.: LA-2019-346A<br/>Scope Reference: ATEL-0423-346A</i> |
| 5. Ciguatoxin                       | IAEA TechDOC 1729                      | 5 ng PbTX eq / g            |  |          |   |  |  |
| 6. Cyanide                          | APHA Method No. 4500                   | 0.04 ppm                    |  | 250.00   | Seven (7) working days after sample receipt   |  |  |
|                                     |  |                             | 1 pc per sample (< 250g)   |          |   |  |  |
| 7. Formaldehyde                     | Spectrophotometric Method Nash Reagent | 0.60 ug/g                   | 250.00   |          |   |  |  |
|                                     |  |                             | At least 5 pcs   |          |   |  |  |



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Arcadia Bldg., 860 Quezon Avenue, Quezon City

|                           |                            |  |                     |                   |
|---------------------------|----------------------------|--|---------------------|-------------------|
| Document No.<br>ML 7.2-01 | Revision No<br>4           | Effectivity Date<br>06/11/2023               | <b>MASTER LISTS</b> | Page:<br>12 of 12 |
| SECTION:<br><b>7.0</b>    | Sub-Section:<br><b>7.2</b> | SUB-TITLE:<br><b>Master List of Analyses</b> |                     |                   |

**NOTES and REMINDERS:**

- All samples** that will be submitted for analysis must have COMPLETE INFORMATION including other documentary requirements such as Local Transport Permit (LTP) or Auxilliary Invoice for samples that are wild caught.
- ALL samples** for other analysis **MUST be placed in a plastic container, plastic bag or Ziploc bag and should be properly SEALED for each sample type.** KINDLY ensure that there are no holes in the container to avoid contamination.
- The **SEALED samples must then be placed in a Styrofoam box or Cooler Insulated Box** and **ice SHOULD be packed SEPARATELY** around the samples. This is NOT REQUIRED for AQUATIC FEEDS and LIVE samples.
- Samples for MICROBIAL EXAMINATION** will be accepted every **MONDAY between 8:00AM to 12:00PM in a week with five (5) working days** for 20 samples (maximum of 5 samples accepted per exporters).
- For **Physico-Chemical and Microbial Analysis or Examination**, samples **MUST be in a Sterilized Zipped Plastic Sealer Bag or Vacuumed Sealed Plastic Bag or Bottle** and put in a **Cool Box or Container or Styrofoam Box as chilled or maintain its ice temperature.**
- Aquatic Feeds** samples can be analyzed for **CAP and Aflatoxin only.**
- Samples for **Bacteriology (Luminous and Vibrio)** will be accepted from Monday to Thursday between 8:00AM to 4:00PM.

**SAMPLES THAT DO NOT COMPLY WITH THE SET REQUIREMENTS AND WITH INCOMPLETE INFORMATION WILL BE REJECTED.**

FOR INQUIRIES you may contact or email us:



0919-0041280



receivingnfld.bfar@gmail.com

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| Prepared by:<br><br><i>Original signed</i><br>JENNY A. HERNANDEZ<br>Customer Service Officer | Reviewed by:<br><br><i>Original signed</i><br>JUDITH MAE B. ARVESU<br>Quality Assurance Manager | Approved by:<br><br><i>Original signed</i><br>SONIA S. SOMGA<br>Laboratory Manager |
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