



Aquaculture Department
Southeast Asian Fisheries Development Center



Bacteriology / Mycology

Bacterial isolation P300
(1-5 specimens)

Bacterial identification P750
Conventional method (per isolate), min. of 5 isolates

Bacterial count
Water samples, fry (1-10 pcs.), fish fingerlings and juveniles

Total plate count, luminous bacteria count, total presumptive *Vibrio* P300

***Vibrio parahaemolyticus*, *Vibrio cholerae*, *Vibrio alginolyticus* count** P300

Marine fungal isolation P300

Aflatoxin detection P500
Aflatoxin Rapid Test Kit eLabsience

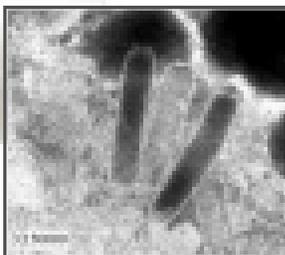
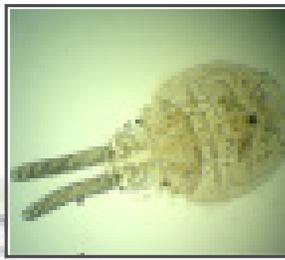
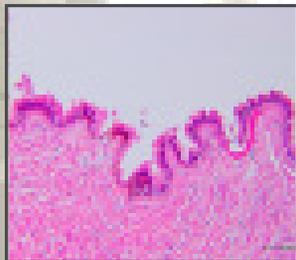
Histopathology

H&E stain of routine paraffin sections

Full mount P300
per slide

Typical section P300
per slide or tissue

Serial section P300
per slide



Clockwise from top left: Histological section of fish intestine tissue; Fish parasite, *Caligus* spp. under a stereomicroscope; Negatively-stained TEM image of white spot syndrome virus in shrimp; Fish infested with parasite, *Amyloodinium* spp.

Vision

A global leader in the generation and transfer of appropriate and sustainable tropical aquaculture technologies for food security and holistic human development

Mission

To provide dynamic and competent leadership in the generation and promotion of science-based responsible technologies to strengthen stakeholder capabilities in aquaculture and aquatic resources management.

CONTACT US



Jeralyn F. Panizales
Officer-in-Charge, LFAAT
lfaat@seafdec.org.ph
+63 (33) 511 9170 local 1112
+63 (33) 330 7017



Dr. Eleonor A. Tendencia
Head, Fish Health Section
gigi@seafdec.org.ph
+63 (33) 511 9170 local 1174 / 1177
+63 (33) 330 7010

Dr. Leobert de la Peña
Head, Research Division
leobertd@seafdec.org.ph
+63 (33) 511 9170 local 1101
+63 (33) 330 7010



SEAFDEC/AQD
Tigbauan 5021, Iloilo Philippines
© 2018, 2020, 2021

ANALYTICAL SERVICES



Chemical Analysis



Microbiological Analysis



Electron Microscopy



Fish Health Diagnostic Services

Aquaculture Department
Southeast Asian Fisheries Development Center

OUR SERVICES



Chemical Analysis*

Moisture analysis

Moisture analyzer; Oven

>50 g

Fresh sample	P310
Powdered sample	P160

Complete proximate analysis P2,265

>50g

Crude protein	P665
Kjeltec analyzer	
Crude fat	P540
Soxtec extraction	
Crude fiber	
Fibertec	
from original sample	P1,325
from de-fatted sample	P785

Ash	P275
Muffle furnace	

Fatty acid profiling P1,400

Gas chromatography-ready samples only

Water analysis

>500 mL, unless indicated

pH	P135
Electrometric method	
>50 mL	

Alkalinity	P210
Titrimetry	

Ammonia-Nitrogen	P250
Phenate method	

Total ammonia nitrogen	P265
Continuous flow analyzer	

Chlorophyll	P465
Spectrophotometry	

Dissolved oxygen	P285
Winkler method	

Nitrate-Nitrogen	P640
Continuous flow analyzer, Colorimetry	

Nitrite-Nitrogen	P265
Colorimetry	

Total Nitrite+Nitrate-Nitrogen	P375
Continuous flow analyzer	

Phosphate-Phosphorus	P210
Ascorbic acid method	

Total hardness	P195
EDTA titration	

Total suspended solids (TSS)	P245
Gravimetry	

Soil analysis

>100 g

pH	P225
Glass electrode pH meter	

Organic matter	P320
Walkley and Black method	

Iron	P425
Colorimetry	

Available sulfur	P400
Turbidimetry	

Available phosphorus	P430
Olsen's method	

Metal detection (price is per metal)

Calcium, Magnesium, Copper, Iron	
Atomic Absorption Spectrophotometry	

Water sample (>500 mL)	P500
------------------------	------

Feed sample (>50 g)	P1,000
---------------------	--------



Electron Microscopy*

Sample preparation + 6 photomicrographs

Transmission Electron Microscopy (TEM)	P6,960
--	--------

Scanning Electron Microscopy (SEM)	P3,180
------------------------------------	--------



Microbiological Analysis*

Bacteriological Analytical Manual (BAM) method¹

Standard Methods for Examination of Water and Wastewater²

Heterotrophic plate count ^{1,2}	P240
--	------

Total coliform count ^{1,2}	P300
-------------------------------------	------

Thermotolerant/ <i>Escherichia coli</i> ^{1,2}	P480
--	------

Yeast / mold count ¹	P300
---------------------------------	------

<i>Staphylococcus aureus</i> ¹	P360
---	------

<i>Salmonella</i> spp. ¹	P480
-------------------------------------	------

<i>Vibrio</i> spp. ¹	P480
---------------------------------	------

Total coliform and <i>E. coli</i> count ²	P1,000
Colilert-18 (Rapid Test)	



Fish Health Diagnostic Services

Direct microscopy of wet mounts or tissue smears

Fish / Shrimp Larval monitoring + MBV detection	P250
---	------

Parasite detection and identification	P150
1-5 specimens	

PCR-based diagnosis

Shrimp viruses	
WSSV, IHNV	P900
IQ2000 kit	

WSSV and IHNV quantification	P3,000
Soil, Water, tissue	

TSV, YHV, GAV, IMNV	P1,000
IQ2000 kit	

MBV, HPV	P900
IQ2000 kit	

WTD	P900
XSV, MrNV	

Shrimp bacteria; AHPND	P900
IQ2000 kit	

Shrimp microsporidian parasite; EHP	P900
IQ2000 kit	

Fish viruses	
KHV	P900
IQ2000 kit	

SVCV	P1,000
IQ2000 kit	

VNN	P1,000
IQ2000 kit	

Iridovirus	P900
IQ2000 kit	

*20% discount for students test fees subject to change without prior notice