

**VETERINARY LABORATORY SERVICES UNIT  
DEPARTMENT OF VETERINARY LABORATORY DIAGNOSTICS  
FACULTY OF VETERINARY MEDICINE, UPM**

<b>SPECIMENS SUBMISSION FOR AQUATIC LABORATORY</b>					
<b>Type of Specimen</b>	<b>Tests</b>	<b>Specimens Volume</b>	<b>Collection and Storage</b>	<b>Remarks</b>	<b>Fee Charges (RM)</b>
Live/ Dead (within 1 hour)	<b>Post mortem</b>		<b>Live:</b> Suitable container or oxygenated plastic bag with label. Store at room temperature in a dry state.		Small 15.00 Medium 25.00 Large 50.00
Live/ Dead (within 1 hour)	<b>Parasitology :</b> (endo & ecto parasite)	<b>Fish :</b> Small ≤500gm ~ 5-10 pcs Medium ≥500gm ~min 2 pcs Large >25kg ~ 1 pc	<b>Dead:</b> Keep chilled (4°C-10°C), store in an ice box.		20.00
Live/ Dead (within 12 hours)/ Organ	<b>Virology test (PCR):</b> KHV (Portable realtime PCR) Iridovirus (Portable realtime PCR) SVC (Portable realtime PCR) VNN (Portable realtime PCR) White Spot virus (WSSV)	<b>Shellfish :</b> Small ~ min 5-10 pcs Large ~ 1 pc  <b>Other Aquatic Animal :</b> Tortoise/turtle ~ 1 pc	<b>Live:</b> Suitable container or oxygenated plastic bag with label. Store at room temperature in a dry state.  <b>Dead:</b> Chilled or frozen. Store in between 4°C to -20°C.  <b>Organ:</b> Containers of 90% alcohol should be used or chilled or frozen. Store in between 4°C to -20°C.	<b>KHV:</b> Gill <b>SVC and Iridovirus:</b> Spleen for Iridovirus <b>VNN:</b> Brain <b>WSSV:</b> Shrimp's pleopods (legs)	120.00

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Live/ Dead (dead 1 hour)/ Organ/ specimen swab/ Media Culture/ Water sample/ Blood	<b>Bacteriology:</b> Kit ID: API 20E System Kit ID: BBL Crystal Gram Staining Acid Fast Staining May-Grunwald Giemsa Staining Antibiotic Sensitivity Test  Media Bacteria (MH) Media Bacteria (TSA) Media Bacteria (TCBS)	<b>Fish :</b> Small ≤500gm ~ 5-10 pcs Medium ≥500gm ~min 2 pcs Large >25kg ~ 1 pc  <b>Shellfish :</b> Small ~ min 5-10 pcs Large ~ 1 pc  <b>Other Aquatic Animal :</b> Tortoise/turtle ~ 1 pc  <b>Water Sample:</b> 500ml water without air  <b>Blood:</b> ≤ 0.5ml - 1.0ml	<b>Live:</b> Suitable container or oxygenated plastic bag with label. Store at room temperature in a dry state.  <b>Dead:</b> Chilled or frozen. Store in between 4°C to -20°C.  <b>Organ/Specimen swab:</b> Using Sterile collection swab. Keep chilled (4°C -10°C), store in ice box.  <b>Media Culture:</b> Broth and agar media to be inoculated. Keep chilled (4°C -10°C), store in ice box.  <b>Water Sample:</b> Suitable container or water bottle with label. Keep chilled (4°C -10°C), store in ice box.  <b>Blood:</b> Container of sterile plain tube. Keep chilled (4°C -10°C), store in ice box.		110.00 110.00 12.00 12.00 12.00 19.00 per isolate (6 antibiotics) 13.00 13.00 13.00

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Live/ Dead (within 30 minutes)/ Internal Organ	<b>Histopathology:</b>  Slide preparation (IProceasing, Embedding, Sectioning, Staining H&E and Special Staining)   Slide Reading	<b>Fish :</b> Small ≤500gm ~ 5-10 pcs Medium ≥500gm ~ min 2 pcs Large >25kg ~ 1 pc  <b>Shellfish :</b> Small ~ min 5-10 pcs Large ~ 1 pc  <b>Other Aquatic Animal :</b> Tortoise/turtle ~ 1 pc  <b>Internal Organ :</b> ratio tissue to buffered formalin ~ 1:10	Containers of 10% Buffered Formalin, Bouin, Davidson should be used.  Store at room temperature in a dry state.		30.00
					30.00
Histopathology Slides	<b>Mycology:</b> Grocott Staining	-	-	Sample is taken from Histopathology test slide.	40.00
Water sample/ Live/ Dead (within 1 hour)/ Histopathology Slides	Identification and Isolation			<b>Notes: ADVISABLE</b> to collect water samples directly from the owner's fish farm (onsite).	26.00
Water Sample	<b>Water quality:</b> Ammonia Nitrite/nitrate Chlorine Water hardness Alkalinity Salinity Temperature pH Oxygen Formalin	500ml water without air	Suitable container or water bottle with label at room temperature.	<b>Notes: ADVISABLE</b> to collect water samples directly from the owner's fish farm (onsite).	12.00
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6.00					
6.00					