

Aquaculture Viral Pathogen PCR Detection Tests



The aquaculture farming industry in Malaysia is worth around MYR 2.5 billion (USD 0.8 billion) in 2012. With over 500 aquaculture farms all over the country, emergence of aquaculture pathogens may affect the productivity of the industry. Economically, the import and export of penaeid shrimp from Malaysia to other countries may decrease due to the drop in production caused by infections. Thus, early detection is critical to ensure proper measures are taken to reduce recurrent infections and to maintain the quality of penaeid shrimp.



Vet Food Agro Diagnostics (M) Sdn Bhd provides confirmatory tests to assist in rapid detection of the pathogen and maintain the quality of your aquaculture products.

- Taura Syndrome Virus
- Yellow Head Virus
- White Spot Syndrome Virus
- Infectious Hypodermal & Hematopoietic Necrosis Virus
- Monodon Baculovirus

Features

- ✓ **Reliable result: Highly specific, uses gene-specific primers**
- ✓ **Fast and cost-effective**
- ✓ **Highly sensitive: Limit of Detection is 100pg/mL**
- ✓ **Method for detection: Conventional PCR**
- ✓ **ISO 17025/SAMM Accredited test methods**

testing

Specimen Submission Guidelines

- Send 200g of shrimp specimen in sealable clean plastic bags and label with the specimen ID accordingly.
- Transfer the specimen into a container with ice/dry ice and seal the container.
- Fill up specimen submission form and state relevant details.
- Specimen should be stored at minimum 4°C during transportation.
- The turnaround time (TAT) for all tests is three (3) working days.
- Lab results are available online at VETLAB® VRS Online: www.vfad.com.my/vrsonline



Taura Syndrome Virus

Taura Syndrome Virus (TSV)

- Lethargy (Tiredness)
- Cessation of feeding (No appetite)
- Soft shell and empty gut
- Pale red body surface
- Red tail fan
- Multiple melanised cuticular lesions (black spots) on the body

Yellow Head Virus (YHV)

- White, yellow or brown gills
- Yellowing of the cephalothorax (neck area)
- Body bleaching
- Head appears yellow



Yellow Head Virus

White Spot Syndrome Virus (WSSV)

- Lethargy (Tiredness)
- Cessation of feeding (No appetite)
- Loose shell
- White calcium (white spots) deposits embedded in shell
- Red or pink body surface
- White midgut line through abdomen (stomach area)
- Darkened (red or pink) body surface and appendages



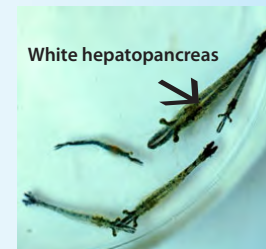
White Spot Syndrome Virus

Infectious Hypodermal & Hematopoietic Necrosis Virus (IHHNV)

- Runt-deformity syndrome (reduced and irregular growth in juveniles and sub-adults)
- Deformed rostrums grow to one side
- White to buff mottling of shell, especially at the junction of shell plates of the abdomen



Infectious Hypodermal & Hematopoietic Necrosis Virus



Monodon baculovirus

Monodon Baculovirus (MBV)

- Lethargy (Tiredness)
- Emaciation (Extreme weight loss)
- Secondary gill and surface fouling by ectoparasites
- White hepatopancreas (digestive gland) and midgut



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(Source of photos: <http://library.enaca.org/Health/FieldGuide/index.htm>)