

Reference Laboratory for
AHPND, IHNV, NHP-B,
TSV, and WSSV



FINAL REPORT

4/30/2025

Aqua Touch Laboratory Co. Ltd.

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Email: Tanjitti.p@touchlaboratory.com

Dear Tanjitti [REDACTED]

Thank you for participating in the February 2025 Ring test for PCR laboratories. In the following pages, you will find a summary of your results along with those of 24 other participants. As customary, the laboratories' names have been substituted by letter codes. The letter assigned to your laboratory is the letter "D". On this occasion, we had the participation of laboratories from 17 countries as follows: Australia (1), Belize(1), Brazil (1), Brunei (1), Canada (2), Colombia (1), Ecuador (4), Guatemala (1), India (1), Malaysia (3), Peru (2), Saudi Arabia (2), Thailand (4), and USA (1).


The pathogens representing a panel of samples you received included Acute hepatopancreatic necrosis disease (AHPND), *Penaeus vannamei* nodavirus (PvNV), Decapod penstyldensovirus 1 (IHNV), Necrotizing hepatopancreatitis bacterium / *Hepatobacter penaei* (NHP-B), Infectious myonecrosis virus (IMNV), Yellow head virus (YHV), *Enterocytozoon hepatopenaei* (EHP), and Taura syndrome virus (TSV). The sample set also included specific pathogen-free (SPF) shrimp tissue. A summary of the results from all of the participants in the ring test is shown in Table 3. The designation "N/A" (Not Analyzed) was used if a laboratory did not test for a particular pathogen. If a sample was reported correctly, the box appears 1/1 or 2/2 to indicate the correct result. If no pathogens were detected in the sample, the designation 0/1 or 2/3, highlighted in red, was used (False negative). If a sample was reported incorrectly, the box appears 2/1, 3/2, or 4/2, highlighted in red, to indicate the incorrect result (False positive). Tables 4 through 12 show summaries of methodology and turnaround times, respectively.


Your laboratory chose to detect the following pathogens: AHPND, PvNV, IHNV, IMNV, EHP, NHP-B, YHV, and TSV. As you can see in Table 3, your laboratory reported the selected pathogen correctly. **Congratulations!**

Thank you for participating in the Ring test. We hope the results will assist you in your diagnostic work and that you find this exercise helpful in assessing your detection and diagnostic capabilities.

Sincerely,




Hung Nam Mai, Ph.D.
Researcher/Scientist III


Arun K. Dhar, Ph.D.
Professor
Director, Aquaculture Pathology Laboratory

Disclosure: This Ring test is intended only as a means to evaluate proficiency in the detection of shrimp pathogens by RT-PCR/PCR/RT-qPCR/qPCR. This Ring test is not a certification of the participating laboratory or of the technician(s) performing such tests. Based on the results of this Ring test, a laboratory should be able to make modifications/improvements as needed.

The University of Arizona, Aquaculture Pathology Laboratory is accredited by ISO/IEC 17043:2013 by ANAB, while demonstrating technical competence in the field of PROFICIENCY TESTING PROVIDER. Refer to the accompanying Scope of Accreditation for information regarding the types of activities to which this accreditation applies.

The University of Arizona, Aquaculture Pathology Laboratory is a WOAHP Reference Laboratory for Acute Hepatopancreatic Necrosis Disease, Infectious Hypodermal and Hematopoietic Necrosis, Necrotising Hepatopancreatitis, Taura Syndrome and White Spot Disease.

Confidentiality Statement: Please note, your laboratory contact information and identity will be kept confidential and will not be shared with any other participants. Ring test results will be anonymized if they are to be shared among all the participants in an all-inclusive report.

END OF REPORT