

NO: SAMM 738

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LABORATORY LOCATION:
(PERMANENT LABORATORY)LAB-IND RESOURCE SDN. BHD.
NO. 57-59, JALAN ADENIUM 2G/6
PUSAT PERNIAGAAN ADENIUM
48300 BANDAR BUKIT BERUNTUNG
SELANGOR
MALAYSIA

FIELD OF TESTING: NUCLEIC ACID

This laboratory has demonstrated its technical competence to operate in accordance with MS ISO/IEC 17025:2017 (ISO/IEC 17025:2017).

This laboratory's fulfillment of the requirements of ISO/IEC 17025 means the laboratory meets both the technical competence requirements and management system requirements that are necessary for it to consistently deliver technically valid test results and calibrations. The management system requirements in ISO/IEC 17025 are written in language relevant to laboratory operations and operate generally in accordance with the principles of ISO 9001 (see Joint ISO-ILAC-IAF Communiqué dated April 2017).

SCOPE OF TESTING: NUCLEID ACID

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Shrimp	White Spot Syndrome Virus (WSSV)	LIRL/LWI 05: Real-time PCR based on IQREAL™ WSSV Quantitative System Instruction Manual (GeneReach Biotechnology Corporation)
	Taura Syndrome Virus (TSV)	LIRL/LWI 06: Real-time PCR based on IQREAL™ TSV Quantitative System Instruction Manual (GeneReach Biotechnology Corporation)
	Yellow Head Disease Virus (YHV)	LIRL/LWI 07: Real-time PCR based on IQREAL™ YHV Quantitative System Instruction Manual (GeneReach Biotechnology Corporation)
	Infectious Myonecrosis Virus (IMNV)	LIRL/LWI 08: Real-time PCR based on IQREAL™ IMNV Quantitative System Instruction Manual (GeneReach Biotechnology Corporation)

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SCOPE OF TESTING: NUCLEIC ACID

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Shrimp (continue)	Infectious Hypodermal and Hematopoietic Necrosis Virus (IHHNV)	LIRL/LWI 09: Real-time PCR based on IQREAL™ IHHNV Quantitative System Instruction Manual (GeneReach Biotechnology Corporation)
	Penaeus monodon-type Baculovirus (MBV)	LIRL/LWI 012: Single-step PCR based on IQ2000™ MBV Instruction Manual (GeneReach Biotechnology Corporation)
	Hepatopancreatic Parvovirus (HPV)	LIRL/LWI 013: Single-step PCR based on IQ2000™ HPV Instruction Manual (GeneReach Biotechnology Corporation)
Fish	Koi Herpes Virus (KHV)	LIRL/LWI 10: Nested PCR based on KHV Instruction Manual (MaxDetect)
	Spring Viraemia of Carp (SVCV)	LIRL/LWI 11: Nested PCR based on SVCV Instruction Manual (MaxDetect)
Fish Non-fish	Tilapia Lake Virus (TiLV)	LIRL/LWI 041: Real-time PCR based on MaxDetect TiLV qPCR Detection Kit

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SCOPE OF TESTING: NUCLEIC ACID

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Shrimp Non-Shrimp	Acute Hepatopancreatic Necrosis Disease/ Early Mortality Syndrome (AHPND/EMS)	LIRL/LWI 28: Nested PCR based on MaxDetect AHPND EMS (AP4) PCR Detection Kit LIRL/LWI 040: Real-time PCR based on MaxDetect AHPND/EMS qPCR Detection Kit
	Enterocytozoon Hepatopenaei (EHP)	LIRL/LWI 29: Nested PCR based on MaxDetect EHP PCR Detection Kit LIRL/LWI 28: Real-time PCR based on MaxDetect EHP qPCR Detection Kit
	White Spot Syndrome Virus (WSSV)	LIRL/LWI 30: Real-time PCR based on MaxDetect WSSV qPCR Detection Kit
	Yellow Head Virus (YHV)	LIRL/LWI 37: Real-time PCR based on MaxDetect YHV qPCR Detection Kit
	Necrotising Hepatopancreatitis Bacterium (NHPB)	LIRL/LWI 42: Real-time PCR based on MaxDetect NHPB qPCR Detection Kit
	Decapod Iridescent Virus 1 (DIV1)	LIRL/LWI 43: Real-time PCR based on MaxDetect DIV1 qPCR Detection Kit

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SCOPE OF TESTING: NUCLEID ACID

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Raw food Semi-processed and processed food Animal feed Non-food product	Determination of Porcine DNA	LIRL/LWI 31: Real-time PCR based on MaxDetect Porcine qPCR Detection Kit

Signatories:

1. **Leong Mun Chun**
2. **Yap Wan Wei**
3. **Winnie Siow Hui Mei**