

**Laboratories Approved to Conduct Diagnostic Testing in Support of Export
Health Certification of Aquaculture Species
(In Alphabetical Order by State)**

**University of Arizona
Aquaculture Pathology
1117 E. Lowell St.
Tucson, AZ 85721
Phone: (520) 621-4438**

Last inspection date: May 15, 2023

Pathogen for a WOAHA listed disease

Vibrio parahaemolyticus (VpAHPND)
Aphanomyces astaci
Hepatobacter penaei
Infectious hypodermal and hematopoietic
necrosis virus
Infectious myonecrosis virus
Taura syndrome virus
White spot syndrome virus
Macrobrachium rosenbergii nodavirus
Yellow head virus genotype 1

Testing Method^{1,2}

Real-time PCR, PCR
Real-time PCR, PCR
Real-time PCR, PCR
Real-time PCR, PCR

Real-time RT-PCR, RT-PCR
Real-time RT-PCR, RT-PCR
Real-time PCR, PCR
Real-time RT-PCR, RT-PCR
Real-time RT-PCR, RT-PCR

**University of Arkansas Pine Bluff -Lonoke
Fish Health Inspection Laboratory
Lonoke Agricultural Center
Lonoke, AR 72086
Phone: (501) 676-3124**

Last inspection date: January 19, 2023

Pathogen for a WOAHA listed disease

Aphanomyces invadans
Infectious hematopoietic necrosis virus
Koi herpesvirus
Red sea bream iridovirus
Viral hemorrhagic septicemia virus

Testing Method^{1,3}

Visual detection of lesions (Identification by PCR)
Virus isolation (Virus identification by RT-PCR)
Real-time PCR
Virus isolation (Virus identification by PCR)
Virus isolation (Virus identification by RT-PCR)

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**Arkansas Livestock and Poultry Commission
Veterinary Diagnostic Laboratory
#1 Natural Resources Drive
Little Rock, AR 72205
Phone: (501) 823-1730**

Last inspection date: March 21, 2023

Pathogen for a WOAHA listed disease	Testing Method¹
<i>Aphanomyces invadans</i>	Visual detection of lesions (PCR for identification)
Infectious hematopoietic necrosis virus	Virus isolation
Koi herpesvirus	Real-time PCR
Red sea bream iridovirus	Virus isolation

**Aquatic Animal Health Laboratory, Florida Atlantic University
Harbor Branch Oceanographic Institute
5600 US 1 North, Room 105B
Fort Pierce, FL 34946
Phone: (772) 242-2525**

Last inspection date: August 30, 2023

Pathogen for a WOAHA listed disease	Testing Method¹
<i>Vibrio parahaemolyticus</i> (VpAHPND)	Real-time RT-PCR
<i>Aphanomyces astaci</i>	Real-time PCR
Decapod iridescent virus 1	Real-time PCR
Infectious hypodermal and hematopoietic necrosis virus	Real-time RT-PCR
Infectious myonecrosis virus	Real-time RT-PCR
<i>Hepatobacter penaei</i>	Real-time RT-PCR
Taura syndrome virus	Real-time RT-PCR
White spot syndrome virus	Real-time RT-PCR
<i>Macrobrachium rosenbergii</i> nodavirus	Real-time RT-PCR
Yellow head virus	Real-time RT-PCR

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Kennebec River Biosciences
41 Main Street
Richmond, ME 04357
Phone: (207) 737-2637

Last inspection date: November 15, 2023

Pathogen for a WOAHA listed disease	Testing Method^{1,2,3}
<i>Aphanomyces invadans</i>	Visual detection of lesions (PCR for identification)
Epizootic hematopoietic necrosis virus	Real-time PCR, virus isolation (Virus identification by sequence)
<i>Gyrodactylus salaris</i>	Visual detection
Infectious hematopoietic necrosis virus	Real-time RT-PCR, virus isolation (Virus identification by sequence)
Infectious salmon anemia virus	Real-time RT-PCR, IFAT, RT-PCR, virus isolation (Virus identification by sequence)
Koi herpesvirus	Real-time PCR
Red sea bream iridovirus	Real-time PCR, virus isolation (Virus identification by sequence)
Salmonid alphavirus	Real-time PCR, virus isolation (Virus identification by sequence)
Spring viremia of carp virus	Virus isolation (Virus identification by sequence)
Viral hemorrhagic septicemia virus	Real-time RT-PCR, RT-PCR, virus isolation
<i>Aphanomyces astaci</i>	Real-time PCR
<i>Hepatobacter penaei</i>	Real-time PCR
Infectious hypodermal and hematopoietic necrosis virus	Real-time PCR
Infectious myonecrosis virus	Real-time RT-PCR
<i>Macrobrachium rosenbergii</i> nodavirus	Nested RT-PCR
Taura syndrome virus	Real-time RT-PCR
<i>Vibrio parahaemolyticus</i> (VpAHPND)	Real-time PCR
White spot syndrome virus	Real-time RT-PCR
Yellow head virus genotype 1	Nested RT-PCR
<i>Bonamia exitiosa</i>	PCR
<i>Bonamia ostreae</i>	PCR
<i>Perkinsus marinus</i>	Culture, PCR
<i>Perkinsus olseni</i>	Culture, PCR

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**Animal Health Diagnostic Laboratory
NJPHEAL
3 Schwarzkopf Drive
Ewing, NJ 08628
Phone: (609) 406-6999**

Last inspection date: September 19, 2024

Pathogen for a WOAHA listed disease	Testing Method^{1,2}
Koi herpesvirus	PCR
Infectious hematopoietic necrosis virus	Real-time RT-PCR, virus isolation
Spring viremia of carp virus	Virus isolation
Viral hemorrhagic septicemia virus	Real-time RT-PCR, virus isolation

**Animal Disease Research and Diagnostic Laboratory
South Dakota State University
Box 2175, North Campus Drive
Brookings, SD 57007-1396
Phone: (605) 688-5171**

Last inspection date: August 28, 2024

Pathogen for a WOAHA listed disease	Testing Method^{1,2}
Spring viremia of carp virus	Virus isolation
Viral hemorrhagic septicemia virus	Real-time RT-PCR, virus isolation

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Aqua Technics Inc.
455 West Bell Street
Sequim, WA 98382
Phone: (360) 681-3122
Fax: (360) 681-3123

Last inspection date: May 10, 2023

Pathogen for a WOAHA listed disease	Testing Method^{1,2}
<i>Bonamia</i> spp.	PCR
<i>Marteilia refringens</i>	PCR
<i>Perkinsus</i> spp.	Culture, PCR
<i>Xenohaliotis californiensis</i>	PCR

Washington Animal Disease Diagnostic Laboratory
College of Veterinary Medicine
Washington State University
PO Box 647034
Pullman, WA 99164-7034
Phone: (509) 335-9696

Last inspection date: November 8, 2023

Pathogen for a WOAHA listed disease	Testing Method^{1,2,3}
Epizootic hematopoietic necrosis virus	Virus isolation (Virus identification by RT-PCR)
Infectious hematopoietic necrosis virus	Virus isolation, RT-PCR
Infectious salmon anemia virus	Real-time RT-PCR, RT-PCR, virus isolation
Koi herpesvirus	Real-time PCR
Salmonid alphavirus	Real-time RT-PCR, virus isolation
Spring viremia of carp virus	Virus isolation (Virus identification by RT-PCR)
Viral hemorrhagic septicemia virus	Real-time RT-PCR, RT-PCR, virus isolation

¹ APHIS notification of non-negative (suspect or positive) test results for WOAHA notifiable aquatic animal pathogens for any testing purposes is required of approved laboratories.

² If more than one testing method is listed, consult the disease-specific chapter in the WOAHA Manual of Diagnostic Tests for Aquatic Animals (www.woah.org) for the test recommended for surveillance to demonstrate freedom in apparently healthy populations or refer to www.aphis.usda.gov/live-animal-export for countries that have specific testing requirements.

³ If virus isolation is the WOAHA test recommended for surveillance to demonstrate freedom in apparently healthy populations, virus identification assays are only conducted on non-negative samples.