

**Laboratories Approved to Conduct
Diagnostic Testing for Export Certification of Aquaculture Species
March 2008**

**University of Arkansas-Pine Bluff
Cooperative Extension Program
Pine Bluff, AR 71601
Phone: (870) 575-8123**

Revisions pending:

Last laboratory inspection:

November 9, 2006

Disease

Infectious hematopoietic necrosis virus (IHNV)
Infectious pancreatic necrosis virus (IPNV)
Spring viremia of carp virus (SVCV)
Viral hemorrhagic septicemia virus (VHSV)
Erythrodermatitis (unknown etiology)

Testing Method

Virus isolation
Virus isolation
Virus isolation
Virus isolation
External examination

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

Last laboratory inspection:

December 13, 2006

Disease

Tetrahedral baculovirus (*Baculovirus penaei* -BP)
Hepatopancreatic parvovirus (HPV)
Infectious hypodermal
and hematopoietic necrosis virus (IHHNV)
Spherical baculovirus
(*Panaeus monodon* - type baculovirus (MBV)
Bacterial necrotizing hepatopancreatitis (NHP)
Taura syndrome virus (TSV)
White spot syndrome virus (WSSV)
Yellow head virus (YHV)

Testing method

Histopathology, *in-situ* hybridization
Histopathology, *in-situ* hybridization, PCR
Histopathology, *in-situ* hybridization, PCR
Histopathology, *in-situ* hybridization, PCR
Histopathology, *in-situ* hybridization
Histopathology, *in-situ* hybridization, RT-PCR
Histopathology, *in-situ* hybridization, PCR
Histopathology, *in-situ* hybridization, RT-PCR

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**Kissimmee Animal Disease Diagnostic Laboratory (KADDL)
Bureau of Diagnostic Laboratories, Division of Animal Industry
Florida Department of Agriculture and Consumer Services
2700 John Young Parkway
PO Box 458006 (Use for letters) Zip 34745
Kissimmee, FL 34741
Phone: (321) 697-1400**

Last laboratory inspection: February 7, 2007

<u>Disease</u>	<u>Testing method</u>
Spring viremia of carp virus	Virus isolation RT-PCR for virus identification

**Moana Technologies LLC Lab Services
99-1255 Waiua Place #4
Aiea, HI 96701
Phone (808) 488-6554**

Last laboratory inspection: March 4, 2008

<u>Disease</u>	<u>Testing method</u>
Tetrahedral baculovirus (<i>Baculovirus penaei</i> -BP)	Histopathology
Hepatopancreatic parvovirus (HPV)	Histopathology
Infectious hypodermal and hematopoietic necrosis virus (IHHNV)	Histopathology
Spherical baculovirus (<i>Panaeus monodon</i> - type baculovirus (MBV))	Histopathology
Necrotizing hepatopancreatitis (NHP)	Histopathology
Taura syndrome virus (TSV)	Histopathology
White spot syndrome virus (WSSV)	Histopathology
Yellow head virus (YHV)	Histopathology

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**Idaho Fish Health Center
Fish and Wildlife Service
U.S. Department of the Interior
PO Box 272
Orofino, ID 83544
Phone: (208) 476-9500**

Revisions pending:
Last laboratory inspection:

April 12, 2007

<u>Disease</u>	<u>Testing method</u>
Infectious hematopoietic necrosis virus (IHNV)	Virus isolation
Infectious pancreatic necrosis virus (IPNV)	Virus isolation
Viral hemorrhagic septicemia virus (VHSV)	Virus isolation
<i>Aeromonas salmonicida</i>	Culture
<i>Renibacterium salmoninarum</i>	Culture
<i>Yersinia ruckeri</i>	Culture
<i>Myxobolus (Myxosoma) cerebralis</i>	Identification of spores
<i>Ceratomyxa shasta</i>	Wet mounts & histology
Proliferative kidney disease (PKX)	Giemsa stained imprints

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Micro Technologies, Inc.
41 Main Street
Richmond, ME 04357
Phone: (207) 737-2637
Fax: (207) 737-4504

Last laboratory inspection: December 1, 2006

<u>Disease</u>	<u>Testing method</u>
Epizootic hematopoietic necrosis virus (EHNV)	Virus isolation
Infectious hematopoietic necrosis virus (IHNV)	Virus isolation
Infectious pancreatic necrosis virus (IPNV)	Virus isolation, RT-PCR
Infectious salmon anemia virus (ISAV)	Virus isolation, IFAT, RT-PCR
<i>Oncorhynchus masou</i> virus (OMV)	Virus isolation
Spring viremia of carp virus (SVCV)	Virus isolation
Viral hemorrhagic septicemia virus (VHSV)	Virus isolation
<i>Aeromonas salmonicida</i>	Culture
<i>Flavobacterium branchiophilum</i>	Culture
<i>Flavobacterium psychrophilum</i>	Culture
<i>Flavobacterium columnare</i>	Culture
<i>Renibacterium salmoninarum</i>	Culture
<i>Yersinia ruckeri</i>	Culture
<i>Ceratomyxa shasta</i>	Histology
<i>Myxobolus cerebralis</i>	Identification of spores
Hepatopancreatic parvovirus (HPV)	PCR
Infectious hypodermal and hematopoietic necrosis virus (IHHNV)	PCR
Necrotizing hepatopancreatitis (NHP)	PCR
Taura syndrome virus (TSV)	RT-PCR
White spot syndrome virus (WSSV)	PCR
Yellowhead virus (YHV)	RT-PCR

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**Maryland Fish Health Diagnostic Laboratory
Dept. of Agriculture
8077 Greenmead Drive
College Park, MD 20740
Phone: (301) 314-1870**

Last laboratory inspection: May 16, 2007

<u>Disease</u>	<u>Testing method</u>
Infectious hemotopoietic necrosis virus (IHNV)	Virus isolation
Infectious pancreatic necrosis virus (IPNV)	Virus isolation
Viral hemorrhagic septicemia virus (VHSV)	Virus isolation
Spring viremia of carp virus (SVCV)	Virus isolation
<i>Oncorhynchus masou</i> virus (OMV)	Virus isolation
<i>Renibacterium salmoninarum</i>	Culture
<i>Aeromonas salmonicida</i>	Culture
<i>Yersinia ruckeri</i>	Culture
<i>Myxosoma cerebralis</i>	Identification of spores
<i>Ceratomyxa shasta</i>	Histology

**University of Minnesota
Veterinary Diagnostic Laboratory
1333 Gortner Avenue
St. Paul, MN 55108-1098
Phone: (612) 625-8787**

Last inspection date: June 1, 2007

<u>Disease</u>	<u>Testing method</u>
Viral hemorrhagic septicemia virus (VHSV)	Virus isolation, RT-PCR

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**Pennsylvania Animal Diagnostic Laboratory System
State Veterinary Laboratory
2305 N. Cameron St.
Harrisburg, PA 17110
Phone: (717) 787-8808**

Last inspection date: March 21, 2007

<u>Disease</u>	<u>Testing method</u>
<i>Myxobolus cerebralis</i>	Identification of spores

**Pennsylvania Animal Diagnostic Laboratory System
Pennsylvania State University
Orchard Road
University Park, PA 16802
Phone: (814) 863-0837**

Revisions pending:
Last inspection date: September 20, 2007

<u>Disease</u>	<u>Testing method</u>
Infectious hematopoietic necrosis virus (IHNV)	Virus isolation
Infectious pancreatic necrosis virus (IPNV)	Virus isolation
Spring viremia of carp virus (SVCV)	Virus isolation
Viral hemorrhagic septicemia virus (VHSV)	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: October 26, 2007

<u>Disease</u>	<u>Testing method</u>
Viral hemorrhagic septicemia virus (VHSV)	Virus isolation, RT-PCR

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**Texas Veterinary Medical Diagnostic Laboratory
Drawer 3040
College Station, TX 77841-3040
Phone: (979) 845-3414**

Revisions pending
Last inspection date: August 10, 2007

<u>Disease</u>	<u>Testing method</u>
White spot syndrome virus (WSSV)	Histopathology, PCR
Taura syndrome virus (TSV)	Histopathology, RT-PCR
Yellow head virus (YHV)	Histopathology, RT-PCR
Infectious hypodermal and hematopoietic necrosis virus (IHHNV)	Histopathology, PCR

**Virginia State University
Dr. David Crosby
PO Box 9081
Petersburg, VA 23806
Phone: (804) 524-5620**

Last inspection date: November 28, 2006

<u>Disease</u>	<u>Testing method</u>
<i>Myxobolus cerebralis</i>	Identification of spores

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

Last inspection date: May 24, 2007

<u>Disease</u>	<u>Testing method</u>
Iridovirus	Cytology, histology, electron microscopic examination
<i>Bonamia</i>	Cytology, histology, PCR
<i>Haplosporidia</i>	Cytology, histology, PCR
<i>Marteilia</i>	Cytology, histology
<i>Mikrocytos</i>	Cytology, histology, PCR
<i>Perkinsus</i>	Culture, histology, PCR

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**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: June 1, 2007

<u>Disease</u>	<u>Testing method</u>
Epizootic hematopoietic necrosis virus (EHNV)	Virus isolation
Infectious hematopoietic necrosis virus (IHNV)	Virus isolation, FA
Infectious pancreatic necrosis virus (IPNV)	Virus isolation, FA
Infectious salmon anemia virus (ISAV)	Virus isolation
<i>Oncorhynchus masou</i> virus (OMV)	Virus isolation
Spring viremia of carp virus (SVCV)	Virus isolation, RT-PCR
Viral hemorrhagic septicemia virus (VHSV)	Virus isolation, IFA
<i>Aeromonas salmonicida</i>	Culture, agglutination, FA
<i>Edwardsiella ictaluri</i>	Culture: agglutination, FA, PCR
<i>Piscirickettsia salmonis</i>	PCR, tissue smears
<i>Renibacterium salmoninarum</i>	ELISA and FA detection of antigen in tissue, PCR
<i>Yersinia ruckeri</i>	Culture: agglutination, FA, PCR
<i>Myxobolus cerebralis</i>	Identification of spores
<i>Ceratomyxa shasta</i>	Histology