



Arkansas Department of Agriculture Aquaculture Laboratory

Fish Inspection Testing Report: 21-AQ100

1 Natural Resources Drive, Little Rock, AR 72205 Phone: 501-823-1730

International

Sampling Date: November 29, 2021

Processing Date: November 30, 2021

Inspection Report Date: January 5, 2022

Production Facility Name: Bagnell Farms

Contact: Steve Kahrs

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Phone: (573) 348-2305

Sample Collector: Dr. Jerry Taylor, DVM, P.O. Box 860, Richland, MO 65556, (573)765-3011

APHIS-AVIC: Dr. David Hopson, 1442 Aaron Ct, Jefferson City, MO 65101, (573) 636-3116

Testing performed: VHSV, SVCV, IPNV, and IHNV, on FHM and BF-2 cells on all fish species; RSIV on GF cells (*Micropterus* and *Morone* species); KHV using qPCR (goldfish and Koi/Carp); observation for signs of EUS on fish. *Key for all abbreviations on back.*

Fish species	# of samples	Size (cm)	Results from testing performed
CAP	150	4.0-8.5	Specific pathogens listed were not detected or observed

Comments: Testing performed according to APHIS-Approved Protocols, OIE regulations, and Bluebook standards. The Bagnell Farm has been fish health tested annually and/or semi-annually for viruses (at least 150 fish per inspection) for more than 4 years. The fish appear healthy and in good condition with no evidence of disease.

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Key to abbreviations – International

Viruses

VHSV – Viral Hemorrhagic Septicemia Virus
 SVCV – Spring Viremia of Carp Virus
 IHNV – Infectious Hematopoietic Necrosis Virus
 IPNV – Infectious Pancreatic Necrosis Virus
 RSIV – Red Sea Bream Iridovirus
 KHV – Koi Herpes Virus

Parasites

EUS – Epizootic Ulcerative Syndrome (*Aphanomyces* spp.)

Detection tests

FHM – Fathead minnow cells (cell line used to grow viruses - sensitive to VHSV, SVCV and IHNV from various fish species)
 BF-2 – Bluegill fin -2 cells (used to grow viruses – sensitive to VHSV and IPNV from various fish species)
 GF – Grunt fin cells (used to grow virus – sensitive to RSIV and tested from *Micropterus* spp. and *Morone* spp. for Canada)
 qPCR – quantitative Polymerase Chain Reaction (specific DNA sequence test for KHV in goldfish and common carp varieties)
 BHI – Brain heart Infusion agar (used to grow bacteria that cause – BF, ERM, and ESC from various fish species), BHI with blood (used to grow *Streptococcus* spp. from Tilapia species)

Fish species

GS	Golden shiner	<i>Notemigonus crysoleucas</i>	LMB	largemouth bass	<i>Micropterus salmoides</i>
FHM	fathead minnow	<i>Pimephales promelas</i>	SMB	smallmouth bass	<i>Micropterus dolomieu</i>
GF	goldfish	<i>Carassius auratus</i>	YP	yellow perch	<i>Perca flavescens</i>
Koi or CAP	koi/common carp	<i>Cyprinus carpio</i>	WE	Walleye	<i>Sander vitreus</i>
GC	grass carp	<i>Ctenopharyngodon idella</i>	CCF	Channel catfish	<i>Ictalurus punctatus</i>
BG	bluegill	<i>Lepomis macrochirus</i>	CCFxBCF	hybrid catfish	<i>Ictalurus punctatus</i> x <i>Ictalurus furcatus</i>
RE	reдеar	<i>Lepomis microlophus</i>	BRB	Brown bullhead	<i>Ameiurus nebulosus</i>
RExBG	hybrid reдеar	<i>Lepomis microlophus</i> x <i>Lepomis macrochirus</i>	STB	striped bass	<i>Morone saxatilis</i>
GRS	green sunfish	<i>Lepomis cyanellus</i>	WB	white bass	<i>Morone chrysops</i>
BGxGRS	hybrid bluegill	<i>Lepomis macrochirus</i> x <i>Lepomis cyanellus</i>	WBxSTB	Hybrid striped bass	<i>Morone chrysops</i> x <i>Morone saxatilis</i>
PSS	Pumpkin seed sunfish	<i>Lepomis gibbosus</i>	TIL	Tilapia	<i>Oreochromis</i> spp.
BC	black crappie	<i>Pomoxis nigromaculatus</i>	PFE	Paddle fish eggs	<i>Polydon spathula</i>
WC	white crappie	<i>Pomoxis annularis</i>	GAM	Gambusia	<i>Gambusia affinis</i>
BCxWC	hybrid crappie	<i>Pomoxis nigromaculatus</i> x <i>Pomoxis annularis</i>			