



Arkansas Department of Agriculture Aquaculture Laboratory

Fish Inspection Testing Report: 22-AQ87

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

Standard Report

Sampling Date: October 19, 2022

Facility Name: Keo Fish Farm, Inc.

Processing Date: October 19, 2022

Contact: Mike Freeze

Inspection Report Date: November 17, 2022

Address: 6444 Hwy 165N, Keo, AR 72083

Phone: (501) 842-2156

Sample Collector: Charles Dulany, DVM, Grand Prairie Veterinary Services, 319 West Madison, Hazen, AR 72064, (870) 255-0022.

APHIS-AVIC: Linda Buss, DVM, USDA APHIS Veterinary Services, 1200 Cherry Brook Dr., STE 300, Little Rock, AR 72211, (501) 725-7880.

Testing performed on all fish species: VHSV, SVCV, IHN, and IPNV on FHM and BF-2 cells; BF and ERM on BHI agar; observation for signs of HS.

Other testing performed depending on fish species: LMBV on FHM cells (centrarchids), CCV on CCO cells (Ictalurids), ESC on BHI agar (Ictalurids), STC on BHI-blood agar (tilapia species); *Key for all abbreviations on back.*

Fish species	# of samples	Size (cm)	Results from testing performed
GC	60	8.0-12.5	Specific pathogens listed were not detected or observed
WB	60	7.5-9.0	Specific pathogens listed were not detected or observed
WBXSTB	60	6.0-10.0	Specific pathogens listed were not detected or observed
BG	60	8.5-11.0	Specific pathogens listed were not detected or observed
STB	60	7.8-9.6	Specific pathogens listed were not detected or observed

Comments: Testing performed according to APHIS-Approved Protocols, OIE regulations, Bluebook standards, and Arkansas regulations. Keo Fish Farm has been fish health tested annually and/or semi-annually for viruses (at least 150 fish per inspection) for more than 16 years. The farm is certified free of important ANS species (including zebra, quagga, and Conrad's false mussels, and New Zealand mud snails) by the Arkansas Department of Agriculture. The fish appear healthy and in good condition with no evidence of disease.

Nilima N. Renukdas

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Key to abbreviations

Viruses

VHSV – Viral Hemorrhagic Septicemia Virus
 SVCV – Spring Viremia of Carp Virus
 IHNV – Infectious Hematopoietic Necrosis Virus
 IPNV – Infectious Pancreatic Necrosis Virus
 CCV – Channel Catfish Virus
 LMBV – Largemouth bass virus

Bacteria

BF – Bacterial Furunculosis (*Aeromonas salmonicida*)
 ERM – Enteric Redmouth (*Yersinia ruckeri*)
 ESC – Enteric Septicemia of Catfish (*Edwardsiella ictaluri*)
 STC – Streptococcus spp.

Parasites

HS – Heterosporosis (*Heterosporis* 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)
 CCO – Channel catfish ovary cells (used to grow virus – sensitive to CCV from Ictalurid species)
 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 STC 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 x Ictalurus furcatus</i>
RE	redeer	<i>Lepomis microlophus</i>	BRB	Brown bullhead	<i>Ameiurus nebulosus</i>
RExBG	hybrid redear	<i>Lepomis microlophus x 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 x Lepomis cyanellus</i>	WBxSTB	Hybrid striped bass	<i>Morone chrysops x 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 x Pomoxis annularis</i>	ES	Emerald shiner	<i>Notropis atherinoides</i>
ESM	Eastern Silvery Minnow	<i>Hybognathus regius</i>			