Fish Health Inspection Report

Company: Blackwater Creek Koi Farms
Facility : Blountstown Facility
Location: 24946 State Road 69 NE
Blountstown, FL 32424
USA

Site Manager: Joe Pawlak
Phone: (352) 357-4563

Water Source: Well
Water Treatment: None

Current Inspection: 08-Feb-12
Prior Inspections:

Type of Fish Examined: Hatchery

Lab Accession: M12020902

Species	Lot ID	Age	Number in Lot	Eggs (E) or Fish (F) Origin	Sample Date(s)	*Pathogens - Methods and Results								
						Viruses					Bacteria		Parasites	
						IPNV	KHV	SVCV	VHSV	VNNV	BF	BRM	HSP	B. ach.
Carassius auratus goldfish	M12-089	~12 mo	10,000	(E) Blackwater Creek Koi Farms (FL)	08-Feb-12	P24B		P42B	P42B					
						15		15	15					
						neg		neg	neg					
Cyprinus carpio koi koi	M12-090	~12 mo	200,000	(E) Blackwater Creek Koi Farms (FL)	08-Feb-12	P24B	P24B	P42B	P42B					
						135	135	135	135					
						neg	neg	neg	neg					

Notes: * See other side of sheet for explanations of Pathogens - Methods and Results coding

All lots were tested according to World Organization for Animal Health (OIE) "Manual of Diagnostic Tests for Aquatic Animals" (2009) protocols. At the time of collection, all fish were visually examined by Kathleen Hartman, DVM (USDA/APHIS/VS) for the presence of gross clincial signs consistent with Epizootic Ulcerative Syndrome (EUS). None of the fish examined from lot M12-089 or M12-090 had clinical signs of EUS.

Samples Collected By: Sherri Kasper, DVM
Affiliation: Northwood Animal Hospital
Telephone: (850) 385-8181
Client Reference #:
Inspecting Biologist: William Keleher

William R. Keleher, Jr., Fish Health Official

41 Main St. Richmond, ME 04357 USA Tel: 207.737.2637 Fax: 207.737.450 www.kennebecriverbiosciences.com

FOOTNOTES:

PATHOGEN ABBREVIATIONS

IPNV	Infectious Pancreatic Necrosis virus
IHNV	Infectious Hematopoietic Necrosis virus
VHSV	Viral Hemorrhagic Septicemia virus
VEN	Viral Erythrocytic Necrosis virus
HPV	Herpesvirus salmonis
SVCV	Spring Viremia Carp virus
YTV	Yamame Tumor virus
EEV	Epizootic Epitheliotropic virus
ISAV	Infectious Salmon Anemia virus
EHNV	Epizootic Haematopoietic Necrosis virus
BF	Aeromonas salmonicida
BRM	Yersinia ruckeri
BKD	Renibacterium salmoninarum
WD	Myxobolus cerebralis
CS	Ceratomyxa shasta
PKD	Proliferative Kidney Disease
HSP	Heterosporis spp.
B. ach.	Bothriocephalis acheilognathi (Asian Tapeworm)

In lots of fish less than one year of age, the age is listed in arabic numerals followed by mo. for month; for fish older than one year, the age is expressed in arabic numerals followed by a plus sign to indicate “older than”.

Findings are reported in columns from top to bottom for each lot as follows: number of fish examined; methods used; results. Positive results include the number of positive individuals (or pools).

RESULTS ARE REPORTED AS (-) IF NEGATIVE AND AS # +/ # SAMPLED IF POSITIVE.

FOR BKD, APPROXIMATE LEVELS OF INFECTION ARE ALSO REPORTED (e.g., 10/ 50 fields)

VIRAL PATHOGENS:

First letter = sampling method

A = whole fry homogenates(minus head, tail, yolk sac if present)
B = whole visceral homogenates
C = kidney/spleen
D = ovarian fluids
E = kidney/spleen/heart
F = kidney/spleen/liver
G =kidney/spleen/heart/liver/pyloric caeca/gill
H = kidney/spleen/swim bladder
I = kidney/spleen/heart/liver
J = brain/eye
K = kidney/spleen/pyloric caeca/gill
L = kidney/spleen/heart/swim bladder
M= kidney/spleen/liver/swim bladder
N = kidney/spleen/heart/liver/swim bladder
O = kidney/speenl/heart/pyloric caeca/gill
P = kidney/speenl/heart/liver/gill

Numbers = continuous cell lines used

1 = RTG-2 (rainbow trout gonad)
2 = CHSE-214 (chinook salmon embryo)
3 = FHM (fathead minnow)
4 = EPC (epithelioma papillosum cyprini)
5 = BF-2 (bluegill fry)
6 = SHK 1/3 (salmon head kidney)
7 = ASK (atlantic salmon kidney)
8 = SSN-1 (striped snake head)
9 = KF-1 (koi fin)
10 = CCO (Channel Catfish Ovary)

Last letter = Pooling of samples

A = individual fish
B = five fish pools
C = Other_____

PROTOZOAN/PARASITIC PATHOGENS:

A = Digestion method
B = Plankton centrifuge method
C = Examination of stained smear
D = Gross Examination
E = PCR (Polymerase Chain Reaction)
F = Microscopic Examination

BACTERIAL PATHOGENS:

Encoded as follows:

First letter = Health of fish sampled

A = Live, healthy fish
B = Moribund fish
C = Mortalities

Number = Material sampled

1 = kidney
2 = hindgut
3 = lesion
4 = gill
5 = ovarian fluid
6 = seminal fluid
7 = Other_____

Last letter = technique used for:

Primary Isolation

A = Standard culture medium TSA/BHI
B = Cytophaga agar
C = KDM2/SKDM2
D = Kidney smear/impression

Presumptive Diagnosis

E = Gram stain, kidney smears (BKD)
F = Standard biochemical/physical testing
G = Giemsa stain

Confirmatory diagnosis

H = Slide agglutination
I = Direct fluorescent antibody test
J = Indirect fluorescent antibody test
K = ELISA
L = Immunodot
M = Fluorescent immunoassay
N = PCR

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Location: 24946 State Rd 69 NE
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Current Inspection: 28-Nov-12 **Prior Inspections:** 08-Feb-12

Type of Fish Examined: Hatchery

Lab Accession: M12112901

Species	Lot ID	Age	Number in Lot	Eggs (E) or Fish (F) Origin	Sample Date(s)	*Pathogens - Methods and Results									
						Virus								Parasite	
						EHNV	INHV	IPNV	ISAV	KHV	RSIV	SVCV	VHSV	EUS	Gyro
Cyprinus carpio koi koi	M13-004	~6-12 mo	25,000	(E) Blackwater Creek Koi Farms (FL)	28-Nov-12			P24B		P94B		P42B	P42B	D	
								120		120		120	120	120	
								neg		neg		neg	neg	neg	
Carassius auratus goldfish	M13-005	~6-12 mo	8,000	(E) Blackwater Creek Koi Farms (FL)	28-Nov-12			P24C				P42C	P42C	D	
								30				30	30	30	
								neg				neg	neg	neg	

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Inspecting Biologist: William Keleher

William R. Keleher, Jr., Fish Health Inspector

FOOTNOTES:

PATHOGEN ABBREVIATIONS

EHNV	Epizootic Hematopoietic Necrosis virus	
IHNV	Infectious Hematopoietic Necrosis virus	Infectious
IPNV	Pancreatic Necrosis virus	
ISAV	Infectious Salmon Anemia virus	
KHV	Koi Herpes virus	
RSIV	Red Sea Bream iridovirus	
SVCV	Spring Viremia of Carp virus	
VHSV	Viral Hemorrhagic Septicemia virus	
EUS	Epizootic ulcerative syndrome	
GYRO	Gyrodactylus salaris	

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N = kidney/spleen/heart/liver/swim bladder
O = kidney/speenl/heart/pyloric caeca/gill
P = kidney/speenl/heart/liver/gill

Numbers = continuous cell lines used

1 = GF-1 (grunt fin)
2 = CHSE-214 (chinook salmon embryo)
3 = FHM (fathead minnow)
4 = EPC (epithelioma papillosum cyprini)
5 = BF-2 (bluegill fry)
6 = CCO (channel catfish ovary)
7 = ASK (atlantic salmon kidney)
8 = SSN-1 (striped snake head)
9 = KF-1 (koi fin)

Last letter = Pooling of samples

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PARASITIC PATHOGENS

Encoded as follows:

A =digestion method
B = plankton centrifuge method
C = examination of stained smear
D = gross examination
E = PCR
F = microscopic examination