

**AQUATICS
ZEBRAFISH
PCR**

AGENT	SAMPLE TYPE	MYCOBACTERIUM	CORE	COMPLETE
		10Z08	10Z13	10Z18
Mycobacterium abscessus	Whole fish, environmental	•	•	•
Mycobacterium chelonae	Whole fish, environmental	•	•	•
Mycobacterium fortuitum	Whole fish, environmental	•	•	•
Mycobacterium gordonae	Whole fish, environmental	•	•	•
Mycobacterium haemophilum	Whole fish, environmental	•	•	•
Mycobacterium marinum	Whole fish, environmental	•	•	•
Mycobacterium peregrinum	Whole fish, environmental	•	•	•
Mycobacterium saopaulense	Whole fish, environmental	•	•	•
Edwardsiella ictaluri	Whole fish, environmental			•
Pseudocapillaria tomentosa	Whole fish, environmental		•	•
Pseudoloma neurophilia	Whole fish		•	•
Myxidium streinsingeri	Whole fish		•	•
Flavobacterium columnare	Whole fish, environmental			•
Ichthyophthirius multifiliis	Whole fish			•
ISKNV (Infectious spleen and kidney necrosis virus)	Whole fish			•
Piscinoodinium pillulare	Whole fish			•
Pleistophora hyphessobryconis	Whole fish			•
Zebrafish Picornavirus	Whole fish		•	•

INDIVIDUAL AQUATICS PCR

CODE	AGENT	SAMPLE TYPE
10825	Batrachochytrium dendrobatidis	Whole fish, environmental
10559	Edwardsiella ictaluri	Whole fish, environmental
10560	Flavobacterium columnare	Whole fish, environmental
10561	Ichthyophthirius multifiliis	Whole fish
10834	IPNV (Infection Pancreatic Necrosis Virus)	Whole fish, environmental
10562	ISKNV (Infectious spleen and kidney necrosis virus)	Whole fish, environmental
10551	Mycobacterium abscessus	Whole fish, environmental
10552	Mycobacterium chelonae	Whole fish, environmental
10553	Mycobacterium fortuitum	Whole fish, environmental
10554	Mycobacterium gordonae	Whole fish, environmental
10555	Mycobacterium haemophilum	Whole fish, environmental
10556	Mycobacterium marinum	Whole fish, environmental
10557	Mycobacterium peregrinum	Whole fish, environmental
10558	Mycobacterium saopaulenses	Whole fish, environmental
10577	Mycobacterium genus spp.	Whole fish, environmental
10563	Myxidium streinsingeri	Whole fish
10564	Piscinoodinium pillulare	Whole fish
10565	Pleistophora hyphessobryconis	Whole fish, environmental
10566	Pseudocapillaria tomentosa	Whole fish, environmental
10567	Pseudoloma neurophilia	Whole fish
10941	Pseudocapillaroides xenopi	Whole fish, environmental
10690	Ranavirus	Whole fish, environmental
10835	Saprolegnia brachydanis	Whole fish, environmental

AQUATICS MICROBIOLOGY PANEL

AGENTS (CODE 80Z01)	SAMPLE TYPE
Aeromonas dhakensis	Aseptic swab, environmental, tissue, whole fish
Aeromonas hydrophila	Aseptic swab, environmental, tissue, whole fish
Edwardsiella ictaluri	Aseptic swab, tissue, whole fish
Flavobacterium columnare	Skin swab, tissue, whole fish
Other Bacteria	Aseptic swab, environmental, tissue, whole fish
Plesiomonas shigelloides	Aseptic swab, environmental, tissue, whole fish
Pseudomonas aeruginosa	Aseptic swab, environmental, tissue, whole fish
Pseudomonas fluorescens	Aseptic swab, environmental, tissue, whole fish
Saprolegnia spp.	Skin swab, environmental, tissue, whole fish

**AQUATICS
XENOPUS
PCR**

CODE	AGENT	CORE	COMPLETE
		10Z20	10Z12
10825	B. dendrobatidis	•	•
10552	Myco chelonae	•	•
10556	Myco marinum	•	•
10941	P. XENOPI	•	•
10690	RANAVIRUS PCR	•	•
10554	Myco gordonae	•	•
10478	Cryptosporidium spp		•
10417	P. aeruginosa		•
10418	Salmonella spp		•

ZEBRAFISH PATHOLOGY SERVICES

SERVICE	SAMPLE PREPARATION	SHIPPING CONDITION
NECROPSY	Ship live fish in heavy duty bladders or doubled plastic bags Bags should be 1/3 water 2/3 air	Overnight in insulated containers at ambient temperature
HISTOPATHOLOGY	Open ventral cavity of euthanized fish. Place whole fish in 10% NBF, Davidsons, or Bouins fixative.	Overnight at ambient temperature
HISTOPATHOLOGY & PCR	Flash freeze fish in liquid nitrogen. Flatten fish in foil wrap. Label foil.	Overnight on dry ice

Zebrafish Necropsy will include an external exam of the fish for malformities and lesions. The gills, heart, liver, kidney, intestines, swim bladder, gonads, and brain will be examined for lesions and parasites. Samples may be taken for bacterial cultures and/or PCR testing of infectious agents. Fish may be placed in 10% NBF, Davidson's fixative, or Bouin's if histopathology is required.

Zebrafish Histopathology routine services include whole fish processing, embedding, and slide production. Slides will be stained with H&E stain and include all major organs of the fish including the surrounding connective tissue. An acid-fast stain may be requested if a bacterial infection is suspected. A pathologist evaluation of each fish will be presented in a report format. Annotated microphotographs are available at an additional cost.