

**AQUATICS  
ZEBRA FISH  
PCR**

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

**INDIVIDUAL ZEBRAFISH PCR**

CODE	AGENT	SAMPLE TYPE
10551	<b>Mycobacterium abscessus</b>	Whole Fish, environmental
10552	<b>Mycobacterium chelonae</b>	Whole Fish, environmental
10553	<b>Mycobacterium fortuitum</b>	Whole Fish, environmental
10554	<b>Mycobacterium gordonae</b>	Whole Fish, environmental
10555	<b>Mycobacterium haemophilum</b>	Whole Fish, environmental
10556	<b>Mycobacterium marinum</b>	Whole Fish, environmental
10557	<b>Mycobacterium peregrinum</b>	Whole Fish, environmental
10558	<b>Mycobacterium saopaulenses</b>	Whole Fish, environmental
10577	<b>Mycobacterium genus (spp)</b>	Whole Fish, environmental
10559	<b>Edwardsiella ictalurid</b>	Whole Fish, environmental
10560	<b>Flavobacterium columnare</b>	Whole Fish, environmental
10561	<b>Ichthyophthirius multifiliis</b>	Whole Fish
10562	<b>ISKNV (Infectious spleen and kidney necrosis virus)</b>	Whole Fish, environmental
10563	<b>Myxidium streinsingeri</b>	Whole Fish
10564	<b>Piscinoodinium pillulare</b>	Whole fish
10565	<b>Pleistophora hyphessobryconis</b>	Whole Fish, environmental
10566	<b>Pseudocapillaria tomentosa</b>	Whole Fish, environmental
10567	<b>Pseudoloma neurophilia</b>	Whole Fish

**ZEBRAFISH MICROBIOLOGY PANEL**

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

**ZEBRA FISH PATHOLOGY SERVICES**

<b>SERVICE</b>	<b>SAMPLE PREPARATION</b>	<b>SHIPPING CONDITION</b>
<b>NECROPSY</b>	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
<b>HISTOPATHOLOGY</b>	Open ventral cavity of euthanized fish. Place whole fish in 10%NBF, Davidsons, or Bouins fixative.	Overnight at ambient temperature
<b>HISTOPATHOLOGY &amp; PCR</b>	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% formalin, Davidson’s fixative, or Bouins 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.