

ZEBRAFISH/AQUATIC ANIMAL SAMPLE COLLECTION AND SHIPPING INFORMATION

Samples for Microbiology (bacteria and/or fungal culture)		
Sample Type	Sample Preparation	Shipping Conditions
Culture Swabs w/ Transport Medium (Modified Stuart's, Aimes, etc.)	Swab affected area from animal such as gills, skin, orifices. Protect from UV light.	Overnight at ambient temperature
Water Samples	Three 50mL conical tubes. Protect from UV light.	Overnight at ambient temperature
Agar Plates for Culture Identification	Wrap agar plates in Parafilm. Protect from UV light.	Overnight at ambient temperature
Samples for PCR Analysis (Environmental & Feeds)		
Sample Type	Sample Preparation	Shipping Conditions
Environmental Swabs	1 swab per environmental source	Ambient temperature
Detritus (Biofilm or Sediment)	1mL of detritus in tank water	Ambient temperature
Live Feed	1mL of live feed	Ambient temperature
Whole Fish	Freeze fish & place into sterile vial	Frozen on ice pack (dry ice not required)
Zebrafish Pathology Services		
Sample Type	Sample Preparation	Shipping Conditions
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% 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.