



Zebrafish diagnostic testing service

Envigo offers multiple diagnostic health monitoring panels for zebrafish colonies, water and environmental samples.

Testing services are available for individual agents or as a full panel. All processing and reporting are conducted with the same processes, integrity and quality assurance as our other testing services. Limited sampling kits are available for environmental and water testing. Please contact us for more information.

Recommended sampling
frequency is every
6 months.

Zebrafish Testing Panels*

Agent	Mycobacterium Panel*	Zebrafish Panel I*	Zebrafish Panel II*	Zebrafish Microbiology Panel†
<i>Mycobacterium</i> spp.	X	X	X	
<i>Mycobacterium abscessus</i>	X	X	X	
<i>Mycobacterium chelonae</i>	X	X	X	
<i>Mycobacterium fortuitum</i>	X	X	X	
<i>Mycobacterium gordonae</i>	X	X	X	
<i>Mycobacterium haemophilum</i>	X	X	X	
<i>Mycobacterium marinum</i>	X	X	X	
<i>Mycobacterium peregrinum</i>	X	X	X	
<i>Mycobacterium saopaulense</i>	X	X	X	
Bacteria, Fungi and Parasites				
<i>Aeromonas hydrophila</i>			X	X
<i>Edwardsiella ictaluri</i>		X	X	X
<i>Flavobacterium columnare</i>			X	X
<i>Ichthyophthirius multifiliis</i>			X	
<i>Piscinoodinium pillulare</i>			X	
<i>Pleistophora hyphessobryconis</i>			X	
<i>Plesiomonas shigelloides</i>				X
<i>Pseudocapillaria tomentosa</i>			X	
<i>Pseudoloma neurophilia</i>		X	X	
<i>Pseudomonas aeruginosa</i>		X	X	X
<i>Pseudomonas fluorescens</i>				X
<i>Saprolegnia</i> spp.			X	
Viruses				
Infectious spleen and kidney necrosis virus (ISKNV)			X	
Infectious pancreatic necrosis virus (IPNV)			X	
Zebrafish picornavirus (ZfPV-1)			X	

*qPCR testing will be performed on the following sample types: frozen fish or embryos, environmental sample, water, InterZebTEC (patent pending).

†Microbiology testing methods will be performed on water samples.



Sample type, collection and shipment

Zebrafish or Zebrafish embryos (FF):

A maximum of 5 fish can be pooled into one tube and tested as one sample. Pooling fish of different health statuses or across different systems is not recommended. Single fish can be placed into a 2ml labelled tube for a single test, up to 5 fish into a 50ml tube for pooled samples. Please freeze fish and/or embryos prior to shipping. Ship with dry ice or ice packs to maintain temperature throughout shipping.

Environmental samples (ES):

For all environmental sampling types, we recommend the use of a polystyrene transport boxes containing cold packs or dry ice as noted below. Most samples should not be frozen; live feed is the exception.

Environmental samples could include one or more of the following:

- a) **Detritus:** Rub a dry flocculated swab on the biofilm or sediment to collect detritus. Once collected, cut the head of the swab into a 2ml labelled tube and submit. Refrigerate and ship with ice packs.
- b) **Fish feces:** Collect fish feces into a 2ml labelled tube and submit. Pooled feces from different fish collected in the same tube can be tested as a single sample. Pooling feces of fish with different health statuses or across different systems is not recommended.
- c) **Live feed (e.g., Artemia):** Collect at least 1ml of live feed cultures in appropriate sized tube and ship frozen with dry ice or ice packs to maintain temperature throughout shipping.

Water (W):

Using a sterile 50ml syringe (without needle) collect ~50ml of water and transfer into a labelled falcon tube closed tightly to avoid leaks. Ship water samples with ice packs.

InterZebTEC (patent pending) (IZ):

If using this system, expose the InterZebTEC for 5-7 weeks. At the end of the exposure time transfer the system of filters into a 50 ml labelled tube and ship with ice packs. This system is designed to reliably collect biological samples, including debris and biofilm. InterZebTEC can be shipped at room temperature.

We recommend next day delivery for all sample types. Contact us for more information on storage prior to shipping.

Please contact us regarding this and other testing capabilities at healthmonitorlab@envigo.com or visit us at envigo.com

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