



# Zebrafish Monitoring

Zebrafish are commonly used in a diverse range of bio research fields, including immunology, infectious disease, cardiac and vascular disease research, chemical and drug toxicity studies, reproductive biology, sleep studies and cancer research. The health status of the fish used in research can alter, confound or invalidate experimental results. Therefore, it is important to develop and utilize a health monitoring program to detect infectious agents that may affect the animal and the research outcomes.

Our Health Monitoring protocol advises submission of a pair of live "sentinel fish" per area/tank/rack which enables the evaluation of live fish prior to euthanasia and enables the laboratory to test fresh samples.

One fish is for

**Macroscopic examination**

**Parasitology** (wet prep GIT contents, fins, skin, gills)

**PCR**, placed into a PCR bead tube

2nd fish is for:

**Macroscopic examination**

**Histology**, HE & ZN; all organs; fixed in 50mls formalin pot

Alternatively you can euthanise the fish and submit

one in formalin (ratio tissue:formalin 1:10) with ventral abdomen open

one in a ceramics bead PCR tube, available from us.

We advise you to submit escapee fish from the sump & sludge with the sentinels; as a good insight into the system.

## Costs:

Zebrafish Basic PCR (Z-PCR-B)		\$168
Zebrafish Comprehensive PCR (Z-PCR-C)		\$245
Zebrafish HM basic (Z-HMP-B)	(Live, Histology, Cytology, PCR-6 agents)	\$252
Zebrafish HM comprehensive (Z-HMP-F)	(Live, Histology, Cytology, PCR-9 agents)	\$330
Zebrafish Mycobacterial PCR panel (Z-PCR-MYCO)		\$140
Zebrafish histology, HE/ZN (Z-HIST)		\$85

### Contact details and shipping address

ADELAIDE  
3/49 Holland Street  
Thebarton, SA 5032  
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E-mail: [cerberus@cerberus.net.au](mailto:cerberus@cerberus.net.au)

Web [www.cerberus.net.au](http://www.cerberus.net.au)

MELBOURNE  
Unit 2, 7/11 Rocco Drive  
Scoresby, VIC 3179

Ph: 03 9763 8290

P.T.O



Associate Member and Network Laboratory



# Zebrafish Monitoring PCR Assays

1st assay performed on the sample \$55 ex GST

Subsequent assays performed on the same sample \$35 ex GST

Agent	Method
<i>Mycobacterium spp</i>	PCR
<i>Mycobacterium chelonae</i>	PCR*
<i>Mycobacterium haemophilum</i>	PCR*
<i>Mycobacterium marinum</i>	PCR*
<i>Mycobacterium fortuitum</i>	PCR*
<i>Edwardsiella ictaluri</i>	PCR
<i>Pseudomonas aeruginosa</i>	PCR
Infectious spleen and kidney necrosis virus (ISKNV)	PCR
<i>Pseudoloma neurophilia</i>	PCR
<i>Pseudocapillaria tomentosa</i>	PCR
<i>Ichthyophthirius multifiliis</i>	PCR*
<i>Piscinoodinium pillulare</i>	PCR*
<i>Pleistophora hypessobryconis</i>	PCR*
<i>Myxidium streisingeri</i>	PCR*
<i>Tetrahymena spp</i>	PCR*
Zebrafish Picornavirus	Rt PCR*

\* Positive results may suggest sequencing for further confirmation.

If the assay you require is not listed below, please contact the laboratory.