

Bioprotection Plan: Fish

Prior to arrival:

Zebrafish and embryos must be received from an approved vendor with appropriate testing performed. Health reports should be obtained and submitted to LAPvet@groups.purdue.edu prior to shipment. Embryos being imported should be bleached prior to shipment. Other species of fish should be free of obvious disease or parasites.

Upon arrival:

Imported animals should not enter the main colony if possible.

Imported animals should be equilibrated by floating the bag in the new tank for a few hours and slowly introducing new tank water into the bag. Animal care staff should note the general health and appearance of the animals. If any animals are found with health issues, LAP veterinary staff should be notified.

Fish should be quarantined for 3-4 weeks prior to breeding to monitor for disease. Embryos from quarantined animals should be cleaned using appropriate agents for the microbes/parasites of concern prior to entering the main system.

Preventative Maintenance Plan:

Daily: Observations

Monthly: Report census and morbidity/mortality to LAP veterinary staff

Semi-annually: Testing of zebrafish for pathogens may be performed every 3-12 months

Purdue Zebrafish Excluded Agents

Mycobacterium abscessus

Mycobacterium chelonae*

Mycobacterium fortuitum*

Mycobacterium gordonae

Mycobacterium haemophilum

Mycobacterium marinum

Mycobacterium peregrinum

Mycobacterium saopaulenses*

Edwardsiella ictalurid

Pseudocapillaria tomentosa

*Pseudoloma neurophilia**

*Myxidium streinsingeri**

Flavobacterium columnare

Ichthyophthirius multifiliis

ISKNV (Infectious spleen and kidney necrosis virus)

Piscinoodinium pillulare

Pleistophora hyphessobryconis

Zebrafish Picornavirus*

*Tested for but not excluded