China Zebrafish Resource Center
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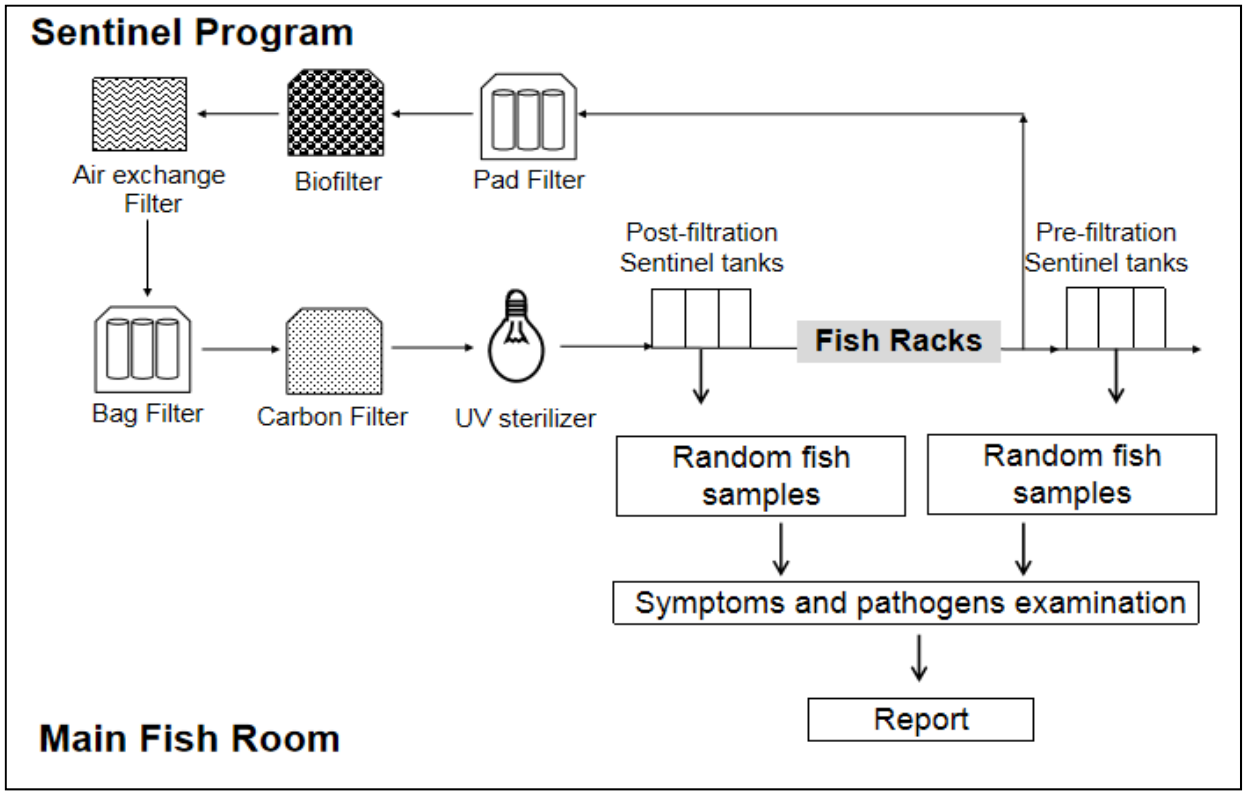
CZRC Animal Health Report (June, 2023)

The main fish facility at China Zebrafish Resource Center (CZRC) is equipped with 6 recirculating aquatic systems (S1-S6). CZRC has been conducting the sentinel program in the main facility since October 2014 and providing monthly health report since October 2016. The Animal Health Report provides an overview of the health monitoring system, diagnostic sampling, and test results for zebrafish raised at CZRC. The CZRC raises zebrafish for in-house use and for shipment to customers. The CZRC recommends use of strict quarantine practices for all imported fish, adults and embryos.

Location: CZRC main fish facility

Description of water system: Six recirculating aquatic systems with same structure.



Water source is reverse osmosis treated municipal water with added salt and aragonite.

Water replacement rate: 10% per day.

UV sterilizer: 75 watt*8/per system

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Embryo surface sanitization: All embryos are surface sanitized by immersion in 30 ppm sodium hypochlorite for 10 minutes.

Diagnostic testing:

1. All Sentinel samples represent at least 3 months exposure to system parameters.
2. All sample fish from the sentinel source tanks are screened for *P. neurophilia* by PCR.
3. All sample fish from the sentinel source tanks are screened for bacterial pathogens by PCR.

Sentinel fish results: (June, 2023**)**

	pre-filtration sentinel tanks						**post-filtration sentinel tanks**					
Location of sentinal fish	S1	S2	S3	S4	S5	S6	S1	S2	S3	S4	S5	S6
Sample Size	5	5	5	5	5	5	5	5	5	5	5	5
Pathogens												
Aeromonas hydrophila	0	0	0	0	0	0	0	0	0	0	0	0
Aeromonas sobria	0	0	0	0	0	0	0	0	0	0	0	0
Aeromonas veronii	0	0	0	0	0	0	0	0	0	0	0	0
Edwardsiella tarda	0	0	0	0	0	0	0	0	0	0	0	0
Edwardsiella ictaluri	0	0	0	0	0	0	0	0	0	0	0	0
Flavobacterium columnare	0	0	0	0	0	0	0	0	0	0	0	0
Plesimonas shigelloides	0	0	0	0	0	0	0	0	0	0	0	0
Vibrio spp.	0	0	0	2	0	1	0	0	0	0	0	0
Mycobacterium spp.	0	0	0	0	0	0	0	0	0	0	0	0
Pseudoloma neurophilia	0	0	0	0	0	0	0	0	0	0	0	0