VERSION 5

JAN 31, 2020

OPEN ACCESS

DOI:
[dx.doi.org/10.17504/protocols.io.bb2iiqce](https://doi.org/10.17504/protocols.io.bb2iiqce)

External link:
<https://doi.org/10.1371/journal.pone.0199712>

Protocol Citation: Christian Lawrence, Jason Best, Althea James, Shane Hurley, Mitchel Shia, Michelle Urh, Brady Hirshfeld, Nina Bakker, Hugo Perdomo, Aaron Krueger 2020. Zebrafish (Danio rerio) Environmental Summary, Aquatic Resources Program, Boston Children's Hospital 2019. **protocols.io**
<https://dx.doi.org/10.17504/protocols.io.bb2iiqce>

MANUSCRIPT CITATION:
 Widrick JJ, Gibbs DE, Sanchez B, Gupta VA, Pakula A, Lawrence C, Beggs AH, Kunkel LM (2018) An open source microcontroller based flume for evaluating swimming performance of larval, juvenile, and adult zebrafish. PLoS ONE 13(6): e0199712. doi: [10.1371/journal.pone.0199712](https://doi.org/10.1371/journal.pone.0199712)

🌐 Zebrafish (Danio rerio) Environmental Summary, Aquatic Resources Program, Boston Children's Hospital 2019 V.5

Christian Lawrence¹, Jason Best¹, Althea James¹, Shane Hurley¹, Mitchel Shia¹, Michelle Urh¹, Brady Hirshfeld¹, Nina Bakker¹, Hugo Perdomo¹, Aaron Krueger²

¹Boston Children's Hospital; ²Worcester Polytechnic Institute

Christian Lawrence
 Boston Children's Hospital

ABSTRACT

Environmental and housing conditions experienced by laboratory animals exert profound effects on their biology, physiology, and behavior. These parameters are important and often overlooked sources of potential variation in experiments, and should be reported in peer-reviewed publications in order to promote scientific reproducibility. To that end, here we provide a summary of the environmental conditions in zebrafish (Danio rerio) aquaculture facilities at Boston Children's Hospital (BCH). We include data on the physico-chemical, health, and nutrition of zebrafish in three separate facilities at BCH: Karp, Enders SSB, and Enders Lobby. In this year's version, we also include new information on our sanitization protocol validation, and dietary inputs. We also provide some additional characterization of our sampling methods for water parameters and health in an updated legend. This information will be applicable to any study involving zebrafish conducted in one of these three facilities during the year of 2019.

ATTACHMENTS

BCH Danio rerio
 Environmental Summary
 2017 .pdf

BCH Danio rerio
 Environmental Summary
 2018.pdf

BCH Danio rerio
 Environmental Summary
 2018a.pdf

BCH Danio rerio
 Environmental Summary
 2019.pdf

License: This is an open access protocol distributed under the terms of the [Creative Commons Attribution License](#), which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited

Protocol status: Working
We use this protocol and it's working

Created: Jan 31, 2020

Last Modified: Jan 31, 2020

PROTOCOL integer ID:
32554

Keywords: zebrafish, Danio rerio, husbandry, environmental conditions