

Authors	Year	Rest of citation	Type of source	Quality			WoE Score	WoE Contribution	Section/paragraph/keyword + (initials)	Comments
				Relevance	Validity	Reliability				
	2016	The red light district and its effects on zebrafish reproduction. <i>Zebrafish</i> 13:226-229.	Research Article	Medium	Medium	Low	5	Medium	6.1.3. Zebrafish housing conditions	
Alderton, P., D'Angelo, L., Midtjyng, P.J., Schorderet, D. F., Schulte-Merker, S., Sohm, F. & Warner, S.	2020	Zebrafish: Housing and husbandry recommendations. <i>Laboratory Animals</i> 54, 213-224.	Other	High	Low	High	7	High	all sections of 6.1	
Andersson, M., & Kettunen, P.	2021	Effects of Holding Density on the Welfare of Zebrafish: A Systematic Review. <i>Zebrafish</i> , 18(5), 297-306.	Review	High	High	High	9	High	6.1.2.1 Zebrafish housing systems	
Ademir, K., Sundh, H., Sundell, K., Ericson M, Kettunen, P.	2022	Low Holding Densities Increase Stress Response and Aggression in Zebrafish. <i>Biology</i> , 11(5), 725.	Research Article	High	Low	Low	5	Medium	6.1.2.1 Zebrafish housing systems	
Ashley PJ, Sneddon LU, McCrohan CR.	2007	Noception in fish: stimulus-response properties of receptors on the head of trout <i>Oncorhynchus mykiss</i> . <i>Brain Res</i> 1166: 47-54.	Research Article	Medium	Medium	Medium	6	Medium	6.1.6.1 Anaesthetics	
, Mondal, A., Ong, D., Rainey-Smith, S., Taddel, K., Landelli, M., Groth, D.M., Verdile, G., Martins, R.N.	2012	Regular Care and Maintenance of a Zebrafish (Danio rerio) Laboratory: An Introduction. <i>J. Vis. Exp.</i> (69), e4196, doi:10.3791/4196.	Letter	Medium	Low	Medium	0	Zero	6.1.2.1 Zebrafish housing systems	
Kirsten, K. S., Kreutz, L. C., Kalueff, A. V., & Barcellos, L. J.	2018	The effects of auditory enrichment on zebrafish behavior and physiology. <i>PeerJ</i> , 6, e5162.	Research Article	Medium	Medium	Medium	6	Medium	6.1.3 Zebrafish housing conditions, Enrichment	
Barralo-Gimeno A, Llorens J	2022	Hair cell toxicology: With the help of a little fish. <i>Front Cell Dev Biol.</i> 10:1085225. doi: 10.3389/fcell.2022.1085225.	Review	Low	Low	Low	3	Low	6.1.3.1 general introduction	
Bhat, A., Greulich, M. M., & Martins, E. P.	2015	Behavioral plasticity in response to environmental manipulation among zebrafish (Danio rerio) populations. <i>PLoS One</i> , 10(4), e0125097	Research Article	Low	Medium	Low	4	Medium	6.1.3 Zebrafish housing conditions, Enrichment	
Blessing, J. J., Marshall, J. C., & Balcombe, S. R.	2010	Humane killing of fishes for scientific research: a comparison of two methods. <i>Journal of fish biology</i> 76 (10): 2571-2577.	Research Article	High	Low	Low	5	Medium	6.1.2.2 Hypothermic Shock	
Brand, M., Granato, M., Nusslein-Volhard, C.,	2002	Keeping and raising zebrafish. Zebrafish: a practical approach, 7-37.	Other	High	Zero	Zero	0	Zero	all sections of 6.1	
Canadian Council on Animal Care (CCAC)	2020	CCAC guidelines: Zebrafish and other small, warm-water laboratory fish. ISBN: 978-0-919087-84-2. Canadian Council on Animal Care, Ottawa, Ontario, Canada.	Other	High	Low	High	7	High	6.1.6.1 Anaesthetics 6.1.3. Zebrafish housing conditions	
Cartner, S., Eisen, J.S., Farmer, S.F., Guillemin, K.J., Kent, M.L., Sanders, G.E.,	2020	The Zebrafish in Biomedical Research: Biology, Husbandry, Diseases, and Research Applications. Academic Press.	Other	High	Low	Low	5	Medium	6.1.2.1 Zebrafish housing systems	
Baumann DP, Best J, Coscolla J, Doherty A, Ramos J, Hakkesteeg J, Wanq C, Wilson C, Malle J, Weinstein BM.	2011	The effect of stocking densities on reproductive performance in laboratory zebrafish (Danio rerio). <i>Zebrafish</i> , 8, 141-146. doi:10.1089/zeb.2011.0688	Research Article	High	Medium	Medium	7	High	6.1.2.1 Zebrafish housing systems	
Close, B., Banister, K., Baumann, V., Bernoth, E.M., Bromage, N., Buryan, J., Erhardt, W., Flecknell, P., Gregory, N., Hackbarth, H., Morton, D., and Warwick, C.	1996	Recommendations for euthanasia of experimental animals: Part 1. DGXI of the European Commission. <i>Lab Anim</i> 30, 293-316.	Other	Low	Low	Low	3	Low	6.1.6 Euthanasia	
Collymore, C.	2020	Chapter 24. Anesthesia, Analgesia, and Euthanasia of the Laboratory Zebrafish. <i>Zebrafish in Biomedical Research: Biology, Husbandry, Diseases, and Research Applications</i> , 403-413.	Review	High	Low	High	7	High	6.1.6.1 Anaesthetics	
Collymore, C., Banks, E.K., and Turner, P.V.	2016	Lidocaine Hydrochloride Compared with MS222 for the Euthanasia of Zebrafish (Danio rerio). <i>J Am Assoc Lab Anim Sci</i> 55, 816-820.	Research Article	High	Medium	Medium	7	High	6.1.6.1 Anaesthetics	
Collymore, C., Crim, M.J., and Lieggi, C.	2016	Recommendations for Health Monitoring and Reporting for Zebrafish Research Facilities. <i>Zebrafish</i> 13 Suppl 1, S138-148	Review	High	Low	High	7	High	6.1.5 health control	
Collymore, C., Tolwani, R.J., Rasmussen, S.,	2015	The behavioral effects of single housing and environmental enrichment on adult zebrafish (Danio rerio). <i>Journal of the American Association for Laboratory Animal Science</i> 54, 280-285.	Research Article	Medium	Low	Low	4	Medium	6.1.2.1 Zebrafish housing systems ; 6.1.3.2 Stocking density and aquarium enrichment	
Cortemiglia, C., Beitinger, T.L.,	2005	Temperature tolerances of wild-type and red transgenic zebra danios. <i>Transactions of the American Fisheries Society</i> 134, 1431-1437.	Research Article	Medium	Medium	Low	5	Medium	6.1.2.1 Zebrafish housing systems	
Currie RJ, Bennett WA, Beitinger TL.	1998	Critical thermal minima and maxima of three freshwater game-fish species acclimated to constant temperatures. <i>Environ Biol Fishes</i> 51:187-200.	Research Article	Low	Medium	Low	4	Medium	6.1.2.1 Zebrafish housing systems	
Davis AK, Garner JP, Chu DK, Felt SA.	2022	Propofol Immersion As a Euthanasia Method for Adult Zebrafish (Danio Rerio). <i>Cross Med</i> 72, 204-208.	Research Article	High	Medium	Medium	7	High	6.1.6.1 Anaesthetics	
Di Toro DM, Allen HE, Bergman HL, Meyer JS, Paquin PR, Santore RC.	2001	Biotic ligand model of the acute toxicity of metals. 1. Technical basis. <i>Environ Toxicol Chem.</i> 20: 2383-2396.	Research Article	High	High	High	9	High	6.1.2.2 Water parameters	
Donaldson, M.R., Cooke, S.J., Patterson, D.A. and Macdonald, J.S.	2008	Cold shock and fish. <i>Journal of Fish Biology</i> , 73: 1491-1530.	Review	Low	Low	Low	3	Low	6.1.2.1 Zebrafish housing systems	
Emerson, K, Russo, RC; Lund, RE, Thurston RV	1975	Aqueous Ammonia Equilibrium Calculations (% ammonia): Effect of pH and Temperature. <i>In: J. Fish. Res. Bd. Can.</i> 32 (12), S. 2379-2383. DOI: 10.1139/f75-274	Review	High	Low	Low	5	Medium	6.1.2.2 water parameters	
European Commission	2018	REPORT FROM THE COMMISSION TO THE EUROPEAN PARLIAMENT AND THE COUNCIL on the possibility of introducing certain requirements regarding the protection of fish at the time of killing. COM(2018) 87 final, Brussels, 6.3.2018, Brussels, Belgium.	Other	Low	Low	Low	3	Low	6.1.6. Introduction 6.1.6 euthanasia methods	
European Commission	2022	COMMISSION STAFF WORKING DOCUMENT FITNESS CHECK OF THE EU Animal Welfare legislation. SWD(2022) 329 final, Brussels, 4.10.2022, Brussels, Belgium	Other	Low	Low	Low	3	Low	6.1.6. Introduction	
European Food Safety Authority	2004	Opinion of the Scientific Panel on Animal Health and Welfare (AHAW) on a request from the Commission related to welfare aspects of the main systems of stunning and killing the main commercial species of animals. <i>EFSA Journal</i> 2, 45.	Other	Low	Low	Medium	4	Medium	6.1.6 Euthanasia	
European Food Safety Authority	2009	Species-specific welfare aspects of the main systems of stunning and killing of farmed Atlantic Salmon. <i>EFSA Journal</i> 7, 1011.	Other	Low	Low	Medium	4	Medium	6.1.6 Euthanasia	
Ferreira JM, Felix L, Jorge S, Monteiro SM, Olsson J, Valentim AM.	2022a	Anesthesia Overdose Versus Rapid Cooling for Euthanasia of Adult Zebrafish. <i>Zebrafish</i> 19, 148-159.	Research Article	High	Medium	Medium	7	High	6.1.6.1 Anaesthetics	
Ferreira JM, Jorge S, Félix L, Morello GM, Olsson JAS, Valentim AM.	2022b	Behavioural Aversion and Cortisol Level Assessment When Adult Zebrafish Are Exposed to Different Anaesthetics. <i>Biology (Basel)</i> . 11, 433. doi: 10.3390/biology11101433.	Research Article	Low	Medium	Medium	5	Medium	6.1.6.1 Anaesthetics	
Gallas-Lopes M, Benvenuti R, Donzelli NIZ, Marcon M.	2023	Is environmental enrichment beneficial for laboratory animals? A systematic review of studies in zebrafish. <i>bioRxiv</i> , https://doi.org/10.1101/2023.02.02.526810	Review	High	Medium	Medium	7	High	6.1.3.2 Stocking density and aquarium enrichment	
Geisler, R., Borel, N., Ferg, M., Maier, J.V., Strähle, U	2016	Maintenance of zebrafish lines at the European Zebrafish Resource Center. <i>Zebrafish</i> 13, S-19-S-23.	Other	Low	Low	Low	3	Low	6.1.3 housing conditions	
Goolish, E.M., Evans, R., Okutake, K., Max, R.	1998	Chamber Volume Requirements for Reproduction of the Zebrafish Danio rerio. <i>The Progressive Fish-Culturist</i> , 60: 127-132.	Research Article	High	High	High	9	High	6.1.4 tank volume and reproduction	
Graham, C., von Keyserlingk, M. A., & Franks, B.	2018	Zebrafish welfare: Natural history, social motivation and behaviour. <i>Applied animal behaviour science</i> , 200, 13-22.	Review	High	Low	Low	5	Medium	6.1.3.2 stocking density in zebrafish housing systems	
Hammer HS	2020	Water Quality For Zebrafish Culture, Editor(s): Samuel C. Cartner, Judith S. Eisen, Susan C. Farmer, Karen J. Guillemin, Michael L. Kent, George E. Sanders, In American College of Laboratory Animal Medicine, The Zebrafish in Biomedical Research, Academic Press, 2020, Pages 321-335, ISBN 9780128124314, https://doi.org/10.1016/B978-0-12-812431-4.00029-4 .	Other	High	Low	Low	5	Medium	6.1.2.2 Water parameters	
Harper, C., Lawrence, C	2016	The laboratory zebrafish. CRC Press, Taylor and Francis Group, Boca Raton, FL, USA.	Other	High	Low	Medium	6	Medium	all sections	

Hoshijima, K., Hirose, S.	2007	Expression of endocrine genes in zebrafish larvae in response to environmental salinity. <i>Journal of Endocrinology</i> 193, 481-491.	Research Article	Low	Low	Low	3	Low	6.1.2.2 Water parameters	
Johnson, A., Carew, E., and Sloman, K.A.	2007	The effects of copper on the morphological and functional development of zebrafish embryos. <i>Aquatic Toxicology</i> , 84, 431-438	Research Article	Low	Medium	Medium	5	Medium	6.1.5 health control	
Jung-Schroers, V., Hildebrandt, U., Retter, K., Esser, K.H., Hellmann, J., Kleingeld, D.W., Rohn, K., and Steinhagen, D.	2020	Is humane slaughtering of rainbow trout achieved in conventional production chains in Germany? Results of a pilot field and laboratory study. <i>BMC Veterinary Research</i> 16.	Research Article	Low	Medium	Medium	5	Medium	6.1.6 Euthanasia	
Karga, J., & Mandal, S. C.	2017	Effect of different feeds on the growth, survival and reproductive performance of zebrafish, Danio rerio (Hamilton, 1822). <i>Aquaculture nutrition</i> , 22(2), 406-413.	Research Article	Medium	Medium	Medium	6	Medium	6.1.3.2. Stocking density and aquarium enrichment	
Kenney, J.W., Scot, L.C., Josseyn, S.A., and Frankland, P.W.	2017	Contextual fear conditioning in zebrafish. <i>Learning & Memory</i> 24, 516-523.	Research Article	Low	Medium	Medium	5	Medium	6.1.6 Euthanasia	
Kent, M.L., Feist, S.W., Harper, C., Hoogstraten-Miller, S., Mac Law, J., Sanchez-Morgado, J.M., Tanguay, R.L., Sanders, G.E., Spitsbergen, J.M., and Whipps, C.M.	2009	Recommendations for control of pathogens and infectious diseases in fish research facilities. <i>Comparative Biochemistry and Physiology C-Toxicology & Pharmacology</i> 149, 240-248.	Review	Medium	Low	Medium	5	Medium	6.1.5 health control	
Kent, M.L., Sanders, J.L., Spagnoli, S., Al-Samarrie, C.E., and Murray, K.N.	2020	Review of diseases and health management in zebrafish Danio rerio (Hamilton 1822) in research facilities. <i>Journal of Fish Diseases</i> 43, 637-650.	Review	High	Low	High	7	High	6.1.5 health control	
Kimmel, C.B., Ballard, W.W., Kimmel, S.R., Ullmann, B., Schilling, T.F.	1995	Stages of embryonic development of the zebrafish. <i>Developmental Dynamics</i> 203, 253-310.	Research Article	Medium	Medium	High	7	High	6.1.2.2 Water parameters	
Köhler A, Collymore C, Finger-Baier K, Geisler R, Kaufmann L, Pounder KC, Schulte-Merker S, Valentim A, Varga ZM, Weiss J, Strähle U, Kuroda, I., Mizutani, Y., Cancado, C.K.X., and Podlesnik, C.A.	2017	Report of Workshop on Euthanasia for Zebrafish-A Matter of Welfare and Science. <i>Zebrafish</i> 14(6): 547-551.	Other	High	Low	Low	5	Medium	6.1.6 Euthanasia	
	2019	Predator videos and electric shock function as punishers for zebrafish (Danio rerio). <i>Journal of the Experimental Analysis of Behavior</i> 111, 116-129.	Research Article	Low	Low	Medium	4	Medium	6.1.6 Euthanasia	
Lara RA, Vasconcelos RO.	2019	Characterization of the Natural Soundscape of Zebrafish and Comparison with the Captive Noise Conditions. <i>Zebrafish</i> 16, 152-164. doi: 10.1089/zeb.2018.1654. Epub 2018 Dec 26.	Research Article	Medium	Medium	Low	5	Medium	6.1.3. Zebrafish housing systems	
Lara RA and Vasconcelos RO	2021	Impact of noise on development, physiological stress and behavioural patterns in larval zebrafish. <i>Sc Rep</i> 11.6615.	Research Article	Low	Medium	Low	4	Medium	6.1.3. Zebrafish housing systems	
Lawrence C.	2007	The husbandry of zebrafish (Danio rerio): A review. <i>Aquaculture</i> . 269:1-20.	Review	Medium	Low	Medium	5	Medium	6.1.3. Zebrafish housing systems	
Lawrence C, Eisen, J.S., Varga, Z.M.,	2016	Husbandry and health program survey synopsis. <i>Zebrafish</i> 13, 5-5-7.	Other	High	Low	Medium	6	Medium	6.1.2.2 Water parameters	
Lawrence C, James A, Mobley S.	2015	Successful Replacement of Artemia salina nauplii with Marine Rotifers (Brachionus plicatilis) in the Diet of Preadult Zebrafish (Danio rerio). <i>Zebrafish</i> 5, 366-371.	Research Article	Medium	Medium	Medium	6	Medium	6.1.3.2. Stocking density and aquarium enrichment	
Lawrence, C. and Mason, T.	2012	Housing Systems: A Review of Basic Operating Principles and Considerations for Design and Functionality. <i>Ijar</i> 3, 53, 179-191.	Review	High	Low	High	7	High	6.1.2.1. Zebrafish housing systems	
Learnmonth, C., & Carvalho, A P	2015	Acute and chronic toxicity of nitrate to early life stages of zebrafish—setting nitrate safety levels for zebrafish rearing. <i>Zebrafish</i> , 12(4), 305-311.	Research Article	Low	Medium	Medium	5	Medium	6.1.2.1. Zebrafish housing systems	
Leary, S; Underwood, W; Anthony, R; Cartner, S; Grandin, T; Greenacre, C. et al.	2020	AVMA Guidelines for the Euthanasia of Animals: 2020 Edition. Online available at https://www.avma.org/sites/default/files/2020-02/Guidelines-on-Euthanasia-2020.pdf .	Other	Low	Medium	Medium	5	Medium	6.1.6 Euthanasia	
Lee CJ, Paul GC, Tyler CR.	2022	Improving zebrafish laboratory welfare and scientific research through understanding their natural history. <i>Biol. Rev.</i> 97, 1038-1056. doi: 10.1111/bv.12831	Review	Medium	Medium	Low	5	Medium	6.1.2.1. Zebrafish housing systems	
Leyden C., Brüggemann T., Dejniski F., Simacek CA, Dehmel FA, Arrenberg AB	2022	Efficacy of Tricaine (MS-222) and Hypothermia as Anesthetic Agents for Blocking Sensorimotor Responses in Larval Zebrafish. <i>Front. Vet. Sci.</i> 9:864573.	Research Article	Medium	Medium	Medium	6	Medium	6.1.6.2 Hypothermic shock	
Ljister, K., Radman, G. D., Prescott, M. J. & Owen, S. F.	2017	International survey on the use and welfare of zebrafish Danio rerio in research. <i>J Fish Biol</i> 90, 1891-1905.	Research Article	High	Low	Low	5	Medium	6.1.6 Euthanasia	
Lieggi, C. A. V. Kalueff, C. Lawrence, and C. Collymore.	2020	The influence of behavioral, social, and environmental factors on fecundity and replicability in aquatic animal models. <i>ILAR Journal</i> 60:270-288.	Review	Medium	Low	Medium	5	Medium	6.1.3. Zebrafish housing systems	
Lines, J., and Kestin, S.	2004	Electrical stunning of fish: the relationship between the electric field strength and water conductivity. <i>Aquaculture</i> 241, 219-234	Research Article	Low	Low	Medium	4	Medium	6.1.6 Euthanasia	
Machnik P, Biazar N, Schuster S.	2023	Recordings in an integrating central neuron reveal the mode of action of isoeugenol. <i>Communications Biology</i> 6, 309.	Research Article	Medium	Medium	Medium	6	Medium	6.1.6.1 Anaesthetics	
Maierdlyali A, Wang L, Luo Y, Zhonglu L	2020	Effect of Tank Size on Zebrafish Behavior and Physiology. <i>Animals</i> 10, 2353. doi:10.3390/ani1012231	Research Article	Medium	Low	Low	4	Medium	6.1.2.1. Zebrafish housing systems	
Martens L. G., Witten P. E., Fivelstad S., Husseune A., Saevareid B., Vikeså V., Obach A., Martins, I., vaenim, A.M., Pereira, N., and Antunes, L.M.	2006	Impact of high water carbon dioxide levels on Atlantic salmon smolts (Salmo salar L.): Effects on fish performance, vertebrae composition and structure. <i>Aquaculture</i> 261: 80-88.	Research Article	Low	Low	Medium	4	Medium	6.1.2.2 water parameters	
Mathews, M., Trearrow, B., Matthews, J., Matthews M, Varga ZM.	2002	Anaesthesia and analgesia in laboratory adult zebrafish: a question of refinement. <i>Laboratory Animals</i> 50, 476-488.	Review	High	Low	High	7	High	6.1.6.1 Anaesthetics	
	2012	A virtual tour of the guide for zebrafish users. <i>Resource</i> 31, 34-40.	Review	Medium	Low	Medium	5	Medium	6.1.3. Zebrafish housing systems	
	2012	Anesthesia and euthanasia in zebrafish. <i>ILAR J</i> 53:192-204.	Review	High	Low	Medium	6	Medium	6.1.6.1 Anaesthetics	
Mocho JP, Collymore C, Farmer SC, Leguay E, Murray KN, Pereira N.	2022a	FELASA-AALAS Recommendations for Monitoring and Reporting of Laboratory Fish Diseases and Health Status, with an Emphasis on Zebrafish (Danio rerio). <i>Comp Med.</i> 2022 Jun 1;72(3):127-148. doi: 10.30802/AALAS-CM-22-000034. Epub 2022 May 5.	Other	High	Low	High	7	High	6.1.5 health control	
Mocho JP, Collymore C, Farmer SC, Leguay E, Murray KN, Pereira N.	2022b	Part II Rxchange fish safe. FELASA-AALAS Recommendations for Biosecurity in an Aquat Facility, Including Prevention of Zoonosis, Introduction of New Fish Colonies, and Quarantine. <i>Comp Med.</i> 2022, 72(3):149-168. doi: 10.30802/AALAS-CM-22-0001	Other	High	Low	High	7	High	6.1.5 health control	
Mckimm, R., Ramos, J., Torres, Y.S., Wheatley, S.E., Higgins, J., Millington, M.E., Lundegaard, P.R., Valverde, R.C., Jencic, V., and Von Krogh, K.	2022	A Multi-Site Assessment of Anesthetic Overdose, Hypothermic Shock, and Electrical Stunning as Methods of Euthanasia for Zebrafish (Danio rerio) Embryos and Larvae. <i>Biological</i> 11:546.	Research Article	High	Medium	Medium	7	High	6.1.6 Euthanasia	
Monteiro JF, Martins S, Farias M, Costa T, Certal AC.	2018	The Impact of Two Different Cold-Extruded Feeds and Feeding Regimens on Zebrafish Survival, Growth and Reproductive Performance. <i>J Dev Biol.</i> 6 (3):15.	Research Article	High	Medium	Medium	7	High	6.1.3.2. Stocking density and aquarium enrichment	
Murray, K.N., Lains, D., Spagnoli, S.T.,	2020	Chapter 39. Water quality and idiopathic diseases of laboratory zebrafish. In: <i>The Zebrafish in Biomedical Research</i> . [Eds Editors: Cartner S, Eisen J, Farmer S, Gullemin K, Kent M, Sanders G]. ISBN 978-0-12-812431-4, Elsevier, Amsterdam, the Netherlands, pp. 463-477.	Other	High	Low	Medium	6	Medium	6.1.2.2 water parameters	
Neiffer, D.L., and Stamper, M.A.	2009	Fish Sedation, Anesthesia, Analgesia, and Euthanasia: Considerations, Methods, and Types of Drugs. <i>Ijar Journal</i> 50, 343-360.	Review	Medium	Low	Medium	5	Medium	6.1.6.1 Anaesthetics	
Newberry, R. C.	1995	Environmental enrichment: Increasing the biological relevance of captive environments. <i>Applied Animal Behaviour Science</i> , 44 (2-4), 229-243.	Review	Low	Low	Low	3	Low	6.1.3.2. Stocking density and aquarium enrichment	
Newell, B., Brocca, M.,	2022	Chapter 2. Housing and maintenance of zebrafish, new technologies in laboratory aquatic systems and considerations for facility design. In: <i>Laboratory Fish in Biomedical Research</i> . Eds. D'Angelo L. and De Girolamo P. ISBN 978-0-12-821099-4 Elsevier, Amsterdam, the Netherlands. pp. 23-62.	Other	High	Low	Medium	6	Medium	6.1.2.2 water parameters	
NIH (National Institutes of Health)	2020	Guidelines for Use of Zebrafish in the NIH Intramural Research Program. <i>Animal Research Advisory Committee (ARAC), Office of Animal Care and Use, NIH, Bethesda, MD, USA.</i>	Other	Low	Low	Low	3	Low	6.1.6.2 Hypothermic shock	
Niihori M, Piatto T, Igarashi S, Hurbon A, Dunn AM, Tran P, Tran H, Mudery JA, Slepian MJ, Jacob A.	2015	Zebrafish swimming behavior as a biomarker for ototoxicity-induced hair cell damage: a high-throughput drug development platform targeting hearing loss. <i>Transl Res</i> 166(5):440-450. doi: 10.1016/j.trsl.2015.05.002. Epub 2015 May 13.	Research Article	Medium	Medium	Low	5	Medium	6.1.3. Zebrafish housing systems	

Nowosad J, Kucharczyk D, Targońska K.	2017	Enrichment of Zebrafish Danio rerio (Hamilton, 1822) Diet with Polyunsaturated Fatty Acids Improves Fecundity and Larvae Quality. <i>Zebrafish</i> 14(4):364-370.	Research Article	High	Medium	Low	6	Medium	6.1.4 mating
OECD	2011	OECD Guidelines for the Testing of Chemicals. Test Guideline No. 234. Fish Sexual Development Test. OECD Paris, France.	Other	Medium	High	High	8	High	6.1.2.2 Water parameters
OECD	2013	OECD Guidelines for the Testing of Chemicals, Test Guideline No. 210: Fish, Early-life Stage Toxicity Test. OECD, Paris, France.	Other	Medium	High	High	8	High	6.1.2.2 Water parameters
OECD	2013	OECD Guidelines for the Testing of Chemicals. Test Guideline No. 236. Fish Embryo Acute Toxicity (FET) Test. OECD Paris, France.	Other	Medium	High	High	8	High	6.1.2.2 Water parameters
OECD	2019	OECD Guidelines for the Testing of Chemicals. Test Guideline No. 203. Fish, Acute Toxicity Testing. OECD Paris, France.	Other	Medium	High	High	8	High	6.1.2.2 Water parameters
Onarheim, T., Janczak, A. M., & Nordgreen, J.	2022	The Effects of Social vs. Individual Housing of Zebrafish on Whole-Body Cortisol and Behavior in Two Tests of Anxiety. <i>Frontiers in Veterinary Science</i> . 9.	Research Article	Medium	Medium	Medium	6	Medium	6.1.3.3. Solitary housing
O'Sborne, N., Paul, G., Grierson, A., Dunford, K., Busch-Nentwich, E. M., Sneddon, L. U., Wren N, Higgins J, Hawkins, P.	2016	Report of a meeting on contemporary topics in zebrafish husbandry and care. <i>Zebrafish</i> , 13(6), 584-589.	Conference	Medium	Medium	Low	0	Zero	6.1.3.2. Stocking density and aquarium enrichment
Pagnussat, N., Piatto, A. L., Schaefer, L. C., Blank, M., Tamborski, A. R., Guerin, L. D., Bonan CD, Vianna MRM, Lara, D. R.	2013	One for all and all for one: the importance of shoaling on behavioral and stress responses in zebrafish. <i>Zebrafish</i> , 10(3), 338-342.	Research Article	Medium	Low	Low	4	Medium	6.1.3.3. Solitary housing
Parker, M. O., Millington, M. E., Combe, F. J., & Brennan, C. H.	2012	Housing conditions differentially affect physiological and behavioural stress responses of zebrafish, as well as the response to anxiolytics. <i>PLoS one</i> , 7(4), e34992.	Research Article	High	Medium	Medium	7	High	6.1.3. Zebrafish housing systems
Pavlidis, M., Digka, N., Theodoridi, A., Campo, A., Barsakis, K., Skouradakis, G., Samaras, A., Tsalafouta, A.	2013	Husbandry of zebrafish, Danio rerio, and the cortisol stress response. <i>Zebrafish</i> , 10(4), 524-531.	Research Article	Medium	Low	Low	4	Low	6.1.3.2. Stocking density and aquarium enrichment
Popper AN, Sinneros JA.	2022	The Sound World of Zebrafish: A Critical Review of Hearing Assessment. <i>Zebrafish</i> . 19:2, 37-48. doi: 10.1089/zeb.2021.0063.	Review	Medium	Low	Low	4	Zero	6.1.3. Zebrafish housing systems
Pypke, C., Verbojelen, E., Saad, M.A., Casteleyn, C.B., Van Gieweken, C.J., Knäpen, D., Van Cruchten, S.J., Ramsay, J. M., Feist, G. W., Varga, Z. M., Westerfield, M., Kent, M. L., & Schreck, C. B.	2015	Incubation at 32.5 C and above causes malformations in the zebrafish embryo. <i>Reproductive Toxicology</i> 56, 56-63.	Research Article	Medium	Low	Medium	5	Medium	6.1.2.2 Water parameters
Readman, G. D., Owen, S. F., Murrell, J. C., and Knowlton, T. G.	2006	Whole-body cortisol is an indicator of crowding stress in adult zebrafish, Danio rerio. <i>Aquaculture</i> , 258(1-4), 565-574.	Research Article	High	Medium	Medium	7	High	6.1.3.2. Stocking density and aquarium enrichment
Reed, B., Jennings, M	2013	Do Fish Perceive Anaesthetics as Aversive? <i>PLoS one</i> 8.	Research Article	Low	Medium	Medium	5	Medium	6.1.6.1 Anaesthetics
Reed, B., Jennings, M	2011	Guidance on the housing and care of zebrafish Danio rerio. RSPCA, Southwater, Horsham, United Kingdom	Other	High	Low	Medium	6	Medium	6.1.2.2 Water parameters
Ribas L, Valdivieso A, Diaz N, Piferrer F.	2017	Appropriate rearing density in domesticated zebrafish to avoid masculinization: links with the stress response. <i>J Exp Biol</i> 220(Pt 6):1056-1064.	Research Article	High	Medium	Medium	7	High	6.1.3.2. Stocking density and aquarium enrichment
Sanders, E., and Farmer, S. C.	2019	Aquatic Models: Water Quality and Stability and Other Environmental Factors. <i>Har Journal</i> 60, 141-149.	Review	High	Low	Medium	6	Medium	6.1.5 health control
Schaefer, J., Ryan, A., Schroeder, P., Jones, S., Young, I. S., & Sneddon, L. U.	2006	Developmental plasticity in the thermal tolerance of zebrafish Danio rerio. <i>Journal of fish biology</i> 69, 722-734.	Research Article	Medium	Low	Medium	5	Medium	6.1.2.2 Water parameters
Schroeder, P., Lloyd, R., Mckimm, R., Metselaar, M., Navarro, J., O'farrell, M., Readman, G. D., Spellberg, L., and Mocho, J.P.	2014	What do zebrafish want? Impact of social grouping, dominance and gender on preference for enrichment. <i>Laboratory Animals</i> , 48(4), 328-337.	Research Article	High	High	High	9	High	6.1.3.2 aquarium enrichment
Schroeder, P., Lloyd, R., Mckimm, R., Metselaar, M., Navarro, J., O'farrell, M., Readman, G. D., Spellberg, L., and Mocho, J.P.	2021	Anaesthesia of laboratory, aquaculture and ornamental fish: Proceedings of the first LASA-FVS Symposium. <i>Laboratory Animals</i> 55, 317-328.	Other	Medium	Low	Medium	5	Medium	6.1.6 Euthanasia, 6.1.6.1 Anaesthetics
Sessa, A.K., White, R., Houvras, V., Burke, C., Pugach, E., Baker, B., Gilbert, R., Look, A.T., Zon, L. I.	2008	The Effect of a Depth Gradient on the Mating Behavior, Oviposition Site Preference, and Embryo Production in the Zebrafish, Danio rerio. <i>Zebrafish</i> 5: 335-339.	Research Article	High	High	High	9	High	6.1.4 mating
Sfakianakis, D.G., Leris, I., Laggis, A., Kentouri, M.	2011	The effect of rearing temperature on body shape and meristic characters in zebrafish (Danio rerio) juveniles. <i>Environmental Biology of Fishes</i> 92, 197-205.	Research Article	High	Medium	Medium	7	High	6.1.2.2 Water parameters
Shams, S., Chatterjee, D., & Gerlai, R.	2015	Chronic social isolation affects thigmotaxis and whole-brain serotonin levels in adult zebrafish. <i>Behavioural Brain Research</i> , 292, 283-287.	Research Article	Medium	Medium	Medium	6	Medium	6.1.3.2. Stocking density and aquarium enrichment
Sharber, N.G., Carother, S.W., Sharber, J.P., De Vos Jr., J.C., and House, D.A.	1994	Reducing Electrofishing-Induced Injury of Rainbow Trout. <i>North American Journal of Fisheries Management</i> 14, 340-346.	Research Article	Low	Low	Low	3	Low	6.1.6 Euthanasia
Sheets L, Holmgren M, Kindt KS	2021	How Zebrafish Can Drive the Future of Genetic-based Hearing and Balance Research. <i>J Assoc Res Otolaryngol</i> . 22:215-235. doi: 10.1007/s10162-021-00798-z. Epub 2021 Apr 28.	Review	Low	Low	Low	3	Low	6.1.3. Zebrafish housing systems
Shine, R; Amiel, J; Munn, A J; Stewart, M; Vysotski, Al L; Lesku, Ja	2015	Is "cooling then freezing" a humane way to kill amphibians and reptiles? <i>Biology open</i> 4 (7): 760-763.	Research Article	Low	Low	Low	3	Low	6.1.6.2 Hypothermic shock
Shihishi S, Tsang B, Gerlai R.	2022	The effect of fish density and tank size on the behavior of adult zebrafish: A systematic analysis. <i>Front Behav Neurosci</i> . 16:934809. doi: 10.3389/fnbeh.2022.934809.	Review	Medium	Medium	Medium	6	Medium	6.1.2.1. Zebrafish housing systems
Siccardi III, A. I., Sarris, H. W., Jones, W. T., Moseley, D. B., D'Abramo, L. R., & Watts, S. A.	2009	Growth and survival of zebrafish (Danio rerio) fed different commercial and laboratory diets. <i>Zebrafish</i> , 6(3), 275-280.	Research Article	Medium	Medium	Medium	6	Medium	6.1.3.2. Stocking density and aquarium enrichment
Snyder DE,	2003	Electrofishing and its harmful effects on fish, Information and Technology Report USGS/BRD/12003-0002: U.S. Government Printing Office, Denver, CO, USA. 149 p.	Other	Low	Low	Low	3	Low	6.1.6 Euthanasia
Stevens, C. H., B. T. Reed, and P. Hawkins.	2021	Enrichment for laboratory zebrafish—a review of the evidence and the challenges. <i>Animals</i> 11:698.	Review	High	Low	Medium	6	Medium	6.1.3 Zebrafish housing conditions, Enrichment
Strykowski JL, Schech JM, Reuber, L., Gulliaro, L., Leon, C., Romestaing, C., and Volturon, Y.	2015	Effectiveness of recommended euthanasia methods in larval zebrafish (Danio rerio). <i>J Am Assoc Lab Anim Sci</i> 54: 81-84.	Research Article	High	Medium	Medium	7	High	6.1.2.2 Hypothermic Shock
Timmons MB, Ebeling JM	2018	Consequences of electroshock-induced narcosis in fish muscle: from mitochondria to swim performance. <i>J Fish Biol</i> 92, 1805-1818.	Research Article	Medium	Low	Medium	5	Medium	6.1.6 Euthanasia
Tsang B, Zahid, H., Ansari, R., Lee, R.C.-Y., Partaa, A., Gerlai, R.	2013	Recirculating Aquaculture, 3 rd Edition Itasca Publishing Company, LLC, Itasca, NY, USA.	Other	Medium	Low	Low	4	Medium	6.1.2.2 water parameters
Urushibata H, Sasaki K, Takahashi E, Hanada T, Fujimoto T, Arai K, Yamaha E.	2017	Breeding Zebrafish: a review of different methods and a discussion on standardization. <i>Zebrafish</i> 14, 561-573.	Review	Low	Low	Medium	4	Medium	6.1.2.2 water parameters
Valdivieso A, Ribas L, Monleón-Getino A, Orbán L, Piferrer F.	2021	Control of Developmental Speed in Zebrafish Embryos Using Different Incubation Temperatures. <i>Zebrafish</i> 18, 316 - 325. DOI: 10.1089/zeb.2021.0022	Research Article	Medium	Low	Medium	5	Medium	6.1.2.2 water parameters
Van Den Burg EH, Peeters RR, Verhoye M, Meek J, Filk G, Van der Linden A.	2020	Exposure of zebrafish to elevated temperature induces sex ratio shifts and alterations in the testicular epigenome of unexposed offspring. <i>Environ Res</i> . 186:109601. Doi: 10.1016/j.envres.2020.109601	Research Article	Medium	Low	Medium	5	Medium	6.1.2.2 water parameters
Van De Vis, H., Kestin, S., Robb, D., Oehlienschlager, J., Lambooji, B., Munkner, W., Kuhlmann, H., Kloosterboer, K., Tejada, M., Huidobro, A., Ottera, H., Roth, B., Sorensen, N.K., Akse, L., Byrne, H., and Nesvadba, P.	2005	Brain responses to ambient temperature fluctuations in fish: reduction of blood volume and initiation of a whole-body stress response. <i>J Neurophysiol</i> . 93(5): 2849-55.	Research Article	Low	Low	Low	3	Low	6.1.6.2 Hypothermic shock
Varga, Z.,	2003	Is humane slaughter of fish possible for industry? <i>Aquaculture Research</i> 34, 211-220.	Research Article	Medium	Low	Medium	5	Medium	6.1.6 Euthanasia
Varga, Z.,	2016	Aquaculture, husbandry and shipping at the Zebrafish International Resource Center. <i>Methods Cell Biol</i> . 2016:135-509-34.	Other	High	Low	Low	5	Medium	6.1.2.2 water parameters
Verheijen, F.J., and Flight, W.F.G.	2008	Decapitation and brining: Experimental tests show that after these commercial methods for slaughtering eel <i>Anguilla anguilla</i> (L), death is not instantaneous. <i>Aquaculture Research</i> 28, 361-366.	Research Article	Low	Low	Low	3	Low	6.1.6 Euthanasia

Vesper D. J. and Edenborn H. M.	2012	Determination of free CO2 in emergent groundwaters using a commercial beverage carbonation meter. <i>Journal of Hydrology</i> , 438-439: 148-155.	Research Article	Medium	Medium	Medium	6	Medium	6.1.2.2 water parameters
Vicario-Pares, U., Lacave, J.M., Reip, P., Cajavilla, M.P., and Orbea, A.	2018	Cellular and molecular responses of adult zebrafish after exposure to CuO nanoparticles or ionic copper. <i>Ecotoxicology</i> 27, 89-101.	Research Article	Medium	Low	Medium	5	Medium	6.1.5 health control
Villamizar, N., Ribas, L., Piñer, F., Vera, L.M., Sánchez-Vázquez, F.J.,	2012	Impact of daily thermocycles on hatching rhythms, larval performance and sex differentiation of zebrafish. <i>PLoS One</i> 7, e25153.	Research Article	High	Low	Medium	6	Medium	6.1.2.2 Water parameters
Villamizar, N., Vera, L.M., Foulkes, N.S., Sánchez-Vázquez, F.J.,	2014	Effect of lighting conditions on zebrafish growth and development. <i>Zebrafish</i> 11, 173-181.	Research Article	High	Medium	Low	6	Medium	6.1.3.1 housing conditions
Von Krogh, K., Higgins, J., Torres, Y.S., and Mocho, J.P.	2021	Screening of Anaesthetics in Adult Zebrafish (Danio rerio) for the Induction of Euthanasia by Overdose. <i>Biology</i> 2021, 10, 1133.	Research Article	High	High	High	9	High	6.1.6.1 Anaesthetics
Wallace, Chelsea K; Bright, Lauren A.; Marx, James O.; Andersen, Robert P.; Mullins, Mary C.; Carty, Anthony J.	2018	Effectiveness of Rapid Cooling as a Method of Euthanasia for Young Zebrafish (Danio rerio). <i>J Am Assoc Lab Anim Sci</i> 57 (1): 58-63.	Research Article	High	High	High	9	High	6.1.2.2 Hypothermic Shock
Wang J, Wang D, Hu G, Yang L, Liu Z, Yan D, Serikuly N, Alpyshov E, Demin KA, Strekalova T, Barcellos LIG, Barcellos HHA, Amstislavskaya TG, De Abreu MS, Kaluff AV.	2021	The role of auditory and vibration stimuli in zebrafish neurobehavioral models. <i>Behav Processes</i> 193:104505. doi: 10.1016/j.beproc.2021.104505. Epub 2021 Sep 20.	Review	Medium	Medium	Medium	6	Medium	6.1.3. Zebrafish housing systems
Westerfield, M.	1993	The zebrafish: a guide for the laboratory use of zebrafish (Brachydanio rerio). <i>Inst. of Neuroscience, University of Oregon.</i>	Other	High	Low	High	7	High	all sections
Westerfield, M.	2007	The zebrafish book. A guide for the laboratory use of zebrafish (Danio rerio). 5th ed., Univ. of Oregon Press, Eugene, Oregon, USA.	Other	High	Low	High	7	High	all sections
Whitfield TT.	2002	Zebrafish as a model for hearing and deafness. <i>J Neurobiol</i> ,53(2):157-171. doi: 10.1002/neu.10123	Review	Medium	Low	Medium	5	Medium	6.1.3. Zebrafish housing systems
WHO	1986	Environmental health criteria 54. Ammonia. World Health Organization , Geneva	Other	Medium	High	High	8	High	6.1.2.2 Water parameters
World Organization for Animal Health, WOA	2022	Aquatic Animal Health Code - 8/08/2022	Other	Low	Low	Low	3		6.1.1 introduction
Wilkes, L, S. F. Owen, G. D. Readman, K. A. Sloman, and R. W. Wilson.	2012	Does structural enrichment for toxicology studies improve zebrafish welfare? <i>Applied Animal Behaviour Science</i> 139:143-150.	Research Article	High	Medium	Medium	7	High	6.1.3. Zebrafish housing systems
Wilson JM, Bunte BM, Carty AJ.	2009	Evaluation of rapid cooling and tricaine methanesulfonate (MS222) as methods of euthanasia in zebrafish (Danio rerio). <i>J Am Assoc Lab Anim Sci</i> 48: 785-789.	Research Article	High	Medium	Medium	7	High	6.1.6.2 Hypothermic shock
Wong M, Lau IH, Gordillo-Martinez F, Vasconcelos RO	2022	The effect of time regime in noise exposure on the auditory system and behavioural stress in the zebrafish. <i>Sci Rep</i> . 12: 15353. doi: 10.1038/s41598-022-19573-y	Research Article	Medium	Medium	Low	5	Medium	6.1.3. Zebrafish housing systems
Wong, D., von Keyserlingk, M.A.G., Richards, J.G., and Weary, D.M.	2014	Conditioned Place Avoidance of Zebrafish (Danio rerio) to Three Chemicals Used for Euthanasia and Anaesthesia. <i>PLoS One</i> 9.	Research Article	Low	Medium	Medium	5	Medium	6.1.6.1 Anaesthetics
Woodward, M. A., L. A. Winder, and P. J. Watt	2019	Enrichment increases aggression in zebrafish. <i>Fishes</i> 4:22.	Research Article	Low	Low	Low	3	Low	6.1.3.1 housing conditions
Young, R. J.	2013	<i>Environmental enrichment for captive animals</i> . John Wiley & Sons, Hoboken, NJ, USA.	Other	Low	Low	Low	3	Low	6.1.3.2. Stocking density and aquarium enrichment
Zhang, T., Xu, L., Wu, J.J., Wang, W.M., Mei, J., Ma, X.F., and Liu, J.X.	2015	Transcriptional Responses and Mechanisms of Copper-Induced Dysfunctional Locomotor Behavior in Zebrafish Embryos. <i>Toxicological Sciences</i> 148, 299-310.	Research Article	Medium	Medium	High	7	High	6.1.5 health control
Zynda JR.	2020	Chapter 25 - Aquatics Facility Design Considerations: Incorporating Aquatics into an Animal Facility, Editor(s): Samuel C. Cartner, Judith S. Eisen, Susan C. Farmer, Karen J. Guillemin, Michael L. Kent, George E. Sanders, In <i>American College of Laboratory Animal Medicine, The Zebrafish in Biomedical Research</i> , Academic Press, 2020, Pages 321-335, ISBN 9780128124314, https://doi.org/10.1016/B978-0-12-812431-4.00029-4 .	Other	High	Medium	Medium	7	High	6.1.3. Zebrafish housing systems