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Growth performance and biochemical composition of *Labeo rohita* to feed containing *Nerita* species

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A six month's feeding experiment was conducted to evaluate the incorporation of five feed ingredients with the flesh of *Nerita* species in the diet of *Labeo rohita*. Fingerlings of *Labeo rohita* weighing 2-4 gm were divided into six groups and fed with prepared feeds using five different feed ingredients such as ground nut oil cake, tapioca flour, and rice bran and wheat flour along with different levels of the flesh of *Nerita* species as experimental diets. A control group of rohu fingerlings was maintained on pelleted feed without adding the flesh of *Nerita* species. Fishes were fed twice daily with the respective test diets at the rate of 4% body weight during entire culture period of three months. Results regarding growth performance of *L. rohita* fingerlings fed on different experimental diets showed that the best growth performance of fish in terms of percentage live weight gain was noted as 131.68% where as 46.60% was noted with control diet which is prepared without adding the flesh of *Nerita* species. Maximum increase in length (2.90 cm) was noticed in the fingerlings fed with highest level of the flesh of *Nerita* species compared to minimum increase in length (1.33 cm). Specific Growth Rate (SGR) per day of fish fed on different experimental diets was noted in the range of 0.22-0.61% compared to control diet which was noted as 0.28%. The feed conversion ratio observed 4.417 was highest in fish fed with highest level of the flesh of *Nerita* species compared to fish fed on control diet which is noted as 4.032. This study reveals that incorporation of the flesh of *Nerita* species in different feed ingredients is one of the best animal proteins in terms of growth and feed conversion which is optimum for growth of *Labeo rohita*.

Biography

Nchumbeni Humtsoe obtained her PhD degree from University of Mumbai, India on the topic "Growth performance and biochemical composition of *Labeo rohita* to feed containing *Katelysia opima and Nerita species*," and completed a course on "Professional planning and development programme in fisheries" from CIFE, Kolkata, India. She had represented Scientist Team from India and attended 7th Indo-Pacific Fish Conference at Taiwan and presented a paper on topic, "Effect of arsenic on the enzymes of freshwater fish *Labeo Rohita*" which was published in reputed international journal. She had presented research papers on several national conferences. She is a competent Researcher and can work well in team with good communication skills and tackle any challenges positively. She is specialized in Fish Nutrition and Feeding Technologies. She is a Life Member of Indian Fisheries Association since 2008 and currently working as a Fishery Inspector in the Department of Fisheries, Government of Nagaland, and India.

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