

**MICRO WORM CULTURE {WITH STARTER AND WITHOUT STARTER}:
SUSTAINABLE APPROACH TO LARVAL FISH FEEDING**

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ABSTRACT

Micro worms (*Panagrellus redivivus*) are increasingly recognized as a vital live food source for larval fish and other small aquatic organisms. This study presents a comprehensive methodology for culturing micro worms, both using a starter culture and from scratch, aimed at enhancing sustainable aquaculture practices. The first method involves sourcing a live starter culture, preparing a suitable growth medium using bread and yeast, and maintaining optimal environmental conditions to promote rapid reproduction. The second method utilizes decomposed potatoes as a substrate, allowing microorganisms to create a nutrient-rich environment conducive to micro worm colonization. Key steps include careful monitoring of growth conditions, efficient harvesting techniques, and establishing a consistent feeding regimen for larval fish. This research not only provides detailed protocols for cultivating and utilizing micro worms but also emphasizes the importance of maintaining a continuous supply to support the nutritional needs of aquatic organisms. The findings contribute valuable insights into sustainable feeding practices in aquaculture, ensuring the health and growth of larval fish populations.

KEYWORDS:

Micro worms, *Panagrellus redivivus*, Culture methods, Potato, Fish fry nutrition.