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(57) Abstract :

ABSTRACT: Title: A Method for Standardization, Identification, and Production of Uni-Bacterial Biofloc for Aquaculture The present disclosure proposes a method for standardization, isolation, identification, and production of bacterium biofloc for controlled enhancement of water quality, nutrient utilization, and disease suppression in aquaculture. The method for improving aquaculture practices, promoting sustainability, nutrient utilization, and more productive in aquaculture. The proposed method allows continuous access to biofloc as a nutrient-rich food source for 24 hours, resulting in a significant 15 to 20 percentage reduction in overall cost. The proposed method reduces the possibility of changing pathogenic bacteria into newly cultured ponds, ensuring a healthier environment. The proposed method utilizes the bacteria capable of producing biofloc as an inoculum to ensure reproducible outcomes in biofloc formation. The proposed method provides better control over heterotrophic organisms than autotrophic ones, requiring a small amount for implantation.

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