

# Biofloc technology a practical handbook

## yoram avnimelech

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**Who is the father of biofloc technology?** Yoram Avnimelech is a prominent player in creating biofloc technology and its involvement in creating and popularizing it. He is the “Father of Biofloc” and a professor emeritus at the Technion-Israel Institute of Technology.

**What is the introduction of biofloc?** Biofloc technology (BT) is defined as 'the use of aggregates of bacteria, algae, or protozoa, held together in a matrix along with particulate organic matter for the purpose of improving water quality, waste treatment and disease prevention in intensive aquaculture systems'.

**How to maintain biofloc?** In a biofloc system, as the algae and bacteria also have oxygen demand, dissolve oxygen should be maintained at 7-8 ppm to ensure proper functioning of the system. pH is to be maintained in the range between 7 and 8.5.

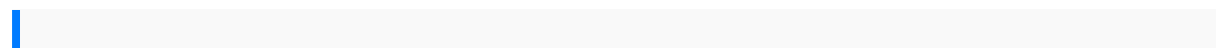
**What is biofloc alternative?** A patented shrimp production system designed for use in in recirculating aquaculture systems (RAS) may increase shrimp survival rates compared to the use of bioflocs, according to a new report.

**Which bacteria is used in biofloc?** Results: Out of 125 bacterial isolates, nine species of bacteria from biofloc were identified successfully. Those bacteria species were identified as *Halomonas venusta*, *H. aquamarina*, *Vibrio parahaemolyticus*, *Bacillus infantis*, *B.*

**What are the disadvantages of biofloc technology?**

**Does biofloc need sunlight?** It is a protein rich live feed formed as a result of conversion of unused feed and excreta into a natural food in a culture system on exposure to sunlight and vigorous aeration.

**Which is better, biofloc or RAS?** Biofloc technology relies on the creation and maintenance of bioflocs, which reduce the need for frequent water exchanges. On the other hand, RAS minimizes water consumption by recirculating and treating the water within the system.



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