

WATER PROBIOTECH S/F

*Probiotic and Natural SOLUTION against silting
up in fish and shrimp ponds*



PROPERTIES

- **WATER PROBIOTECH S/F** is a balanced mix of specific bacteria fixed on a bio-filtering support selected for its high specific surface. This natural substrate provides bacteria with a suitable environment in which to develop their natural capacities for reducing organic waste and detrimental pollutants.
- These bacteria are selected according to their enzymatic properties (lypolytic, proteolytic and cellulolytic activities) and their aptitude to metabolize phenol derivatives. **Water probiotech S/F** contains a **high concentration of viable micro-organisms able to produce large quantities of enzymes.**
- **WATER PROBIOTECH S/F** allows :
 - Digestion of organic silt and reduction of chemical oxygen demand.
 - Metabolic transformation of N-compounds (ammoniac, nitrites and nitrates) and P elements into salts.
 - **Regulation of bacterial populations with reduction of pathogenic bacteria populations.**
 - Reduction in vibrioses,
 - Increased performance : growth and survival
 - Reduced veterinary costs.

COMPOSITION (per kg of product)

- **WATER PROBIOTECH S/F** is an innovative and well balanced complex of substrate, nutrients and micro organisms :
 - Micro organisms : *Bacillus subtilis*, *Pseudomonas putida*, *Bacillus licheniformis*, *Bacillus pumilus*, *Lactobacillus plantarum*, *Pediococcus acidilactici*, *Nitrobacter spp.*, *Nitrosomonas sp.*, *Saccharomyces cerevisiae*, (Number of cells guaranteed : > 1.10⁹/g).
 - Mineral and trace elements.
 - Natural biofiltering substrate.

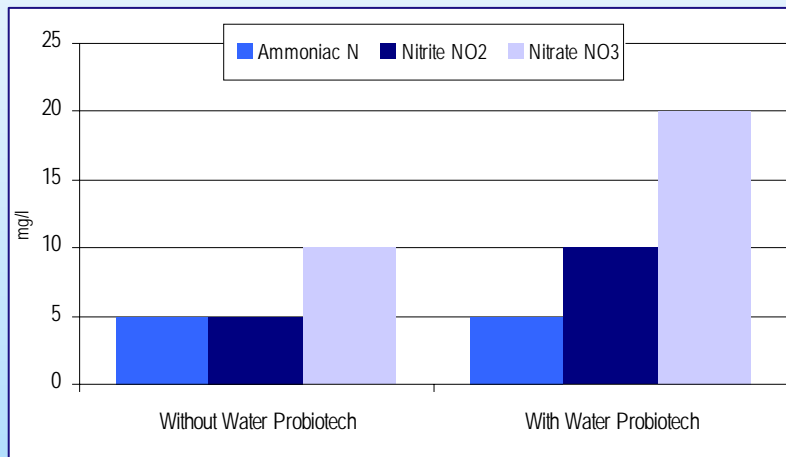
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EXPERIMENTAL RESULTS

- The **Water Probiotech S/F** effect was evaluated with sediments from aquaculture ponds.
- Higher degradation of organic nitrogen converted into ammoniac and then into nitrite and nitrate was observed with the use of **Water Probiotech S/F**.
- These results show that **Water Probiotech S/F** improves decomposition of organic matter into usable minerals for the phytoplankton.



Initial conditions : NH_3 : 200 mg/L ; NO_2 : 0 mg/L ; NO_3 : 0 mg/L

USE AND PRESENTATION

For use in ponds :

- As a preventive measure; recommended dosage (2 applications per month) :
 - 200 g per application and per 1000 m³ for a shrimp or fish biomass of 200 kg (the dosage should increase with an increase in biomass/1000m³) .
- In difficult cases of organic pollution : recommended dosage as a curative measure: 4 kg per 1000 m³ .

For use in hatcheries :

- Recommended dosage : 10 g / m³ per day (preventive).
- **WATER PROBIOTECH S/F** is presented in powder form **and should be** stored in a cool dry place .
- Application: Mix 500 g per 100 litre of tap or pond water. Incubate for 12 hours. Then use .

