

NOVOMAX

Biological Treatment of Algae and Sludge

Description:

Novomax Biological Treatment of Algae and Sludge is a blend of facultative microbial cultures, which means they can function with or without oxygen, making it a very versatile product. It helps dramatically improve water clarity and reduce unpleasant odors. Restore the natural beauty of lakes and ponds today.

NOVOMAX provides a product with 7 strains of Bacillus for a wide range of applications in wastewater treatment.



Description	Free-flowing toasted brown powder.
Packaging	225 g water-soluble bags. 11 kg bucket.
Stability	Maximum shelf life of 1 year.
pH	6.0-8.5
Bulk density	0.5–0.61 g/cm ³
Moisture content	15%
Nutrient content	Nutrients and biological stimulants.
Plate count	4 billion per gram.

Key Features:

- Safe for the environment, natural, non-toxic.
- Improves the effectiveness of biological systems in wastewater treatment.
- Effective growth over a wide range of pH and temperatures.
- Contains organisms that work under anaerobic conditions.
- A microbial blend designed to reduce the appearance of surface algae in lakes and ponds.
- The Bacillus strains in the product consume excess nitrogen and phosphorus in the water body that allow algae to grow and thrive. The product does not affect existing aquatic life; instead, it reduces the amount of waste material or sludge, creating an overall healthier environment.



Bioaugmentation with NOVOMAX can:

- Lower pH.
- Reduce bottom sediment.
- Improve influent water quality.
- Reduce unpleasant odors.
- Reduce ammonia levels and other toxins.



Benefits:

- Improves operational performance.
- Eliminates nitrogen and phosphorus, preventing algae proliferation.
- Reduces COD/BOD levels.
- Reduces sludge generation and accumulation.
- Reduces foaming problems.
- Improves system capacity.
- Enhances floc formation.
- Reduces odor generation.
- Improves removal of fats and oils.
- Improves nutrient removal.

Applications:

- Odor control.
- Biological systems in wastewater treatment.
- Algae removal in lagoons.
- Oxidation lagoons.
- Pumping stations.
- Sludge tanks.
- Aquaculture tanks.

BEFORE



AFTER



Discussion:

Maintaining clarity and cleanliness in fish farming operations is often difficult, especially in warm climates, due to excess suspended solids. This can be both a commercial and aesthetic problem when aerated lagoons are used for fish cultivation. Bioaugmentation will reduce turbidity and promote the stabilization of suspended solids. NOVOMAX Biological Treatment of Algae and Sludge works at low oxygen levels and, because it contains both aerobic and facultative anaerobic bacteria, it aids in the digestion and displacement of filamentous life forms that are often present.

Testimony:

During the month of April, I experienced an algal bloom and suspended solids like I had never seen before. The problem was so severe that it seemed the season would be lost. I used NOVOMAX Biological Treatment of Algae and Sludge throughout the month of May with some effect, but with the warm weather and the beginning of June, the problem returned. I increased the dosage, and by the end of the month the water was already clean. I was concerned about the month of July due to its high temperatures, but there was no need. At the time of writing this note, the water was crystal clear. In fact, during the month of July the fish grew better than I had ever seen at these temperatures. Another positive outcome was that the mortality rate of my fish dropped by 60%.

Bacteria-type microorganisms have two functions in fish farming:

- Break down organic matter at the bottom of the pond (fecal matter, uneaten feed, shrimp carcasses).
- Control surface algae.

Effective biological control:

- Eliminates ammonia and H₂S.
- Reduces waste products at the bottom of the pond and makes draining easier.
- Controls algae and improves water clarity.
- Prevents odors and off-flavors.

Conclusion:

Novomax Biological Treatment of Algae and Sludge represents an efficient, natural, and sustainable biotechnological solution for maintaining water bodies affected by turbidity, excess nutrients, and algae proliferation. The synergistic action of facultative strains allows it to perform under different conditions, reducing sludge, odors, and accumulated organic materials. In addition, its use promotes a more stable aquatic environment, contributing to improved water quality, ecosystem health, and performance in aquaculture operations. Thanks to its formulation, it also helps minimize undesirable compounds such as ammonia, promoting safer environments for aquatic life.

