CREATIVE BIOMART® Microbe

Phosphorus Remover Bacteria

SPECIFICATION

Cat.No.	EPB-029
Product Name	Phosphorus Remover Bacteria
Product Ingredients	Phosphorus removal bacteria, biological enzymes, catalysts, etc.
Product Format	Powder
Shelf Life	24 Months
Bacterial Content	20×10^9 CFU/g
Application	Suitable for municipal sewage treatment plants, various chemical wastewater, printing and dyeing wastewater, landfill leachate, food wastewater and other industrial wastewater treatment anoxic system.
Efficacy and Effect	1. Phosphorus-accumulating bacteria can effectively improve the biochemical removal efficiency of phosphorus in water bodies. At the same time, the product is compounded with biological enzymes, nutrients and catalysts, which can effectively decompose macromolecular organic matter in water into small molecules, increase the growth and reproduction rate of microorganisms, and have a better removal effect than conventional phosphorus-accumulating bacteria. 2. The product can effectively reduce the phosphorus content in water, improve the phosphorus removal efficiency of the sewage system, start quickly, and reduce the operating cost of phosphorus removal in the sewage system.
Usage Method	According to the water quality index of the biochemical system, the amount of industrial waste water added for the first time is 100-200 g/m^3 (calculated according to the volume of the biochemical pool). The dosage of strengthening biochemical system is 50-80 g/m^3 (calculated according to the volume of biochemical pool). The amount of municipal sewage added is 50-80 g/m^3 (calculated according to the volume of the biochemical pool).
Use Parameters	Tests have shown that the following physical and chemical parameters are most effective for bacterial growth:

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1. pH: the average range is between 5.5 and 9.5, and the fastest growth can be achieved between 6.6 and 7.4
2. Temperature: It can take effect between 10°C and 60°C. If the temperature is higher than 60°C, the bacteria will die; when the temperature is lower than 10°C, the bacteria will not die, but their cell growth will be greatly restricted. The most suitable temperature is 26-32°C.
3. Trace elements: Proprietary bacteria need many elements in their growth, such as potassium, iron, calcium, sulfur, magnesium, etc. Usually, soil and water sources contain sufficient amounts of the above elements.
4. Salinity: It is suitable for industrial sewage with high salinity, and can tolerate a salinity of up to 6%.
5. Anti-toxicity: It can effectively resist chemical toxic substances, including chlorides, cyanides and heavy metals.

Note: When the contaminated area contains fungicides, their effect on microorganisms should be studied beforehand.

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