CREATIVE BIOMART® Microbe

Methane Bacteria 2

SPECIFICATION

Cat.No.	EPB-015
Product Name	Methane Bacteria 2
Product Ingredients	Methanogens, enzyme preparations and nutrients, etc.
Product Format	Powder
Shelf Life	24 Months
Bacterial Content	10×10^9 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.
Efficacy and Effect	1. The methanogenic bacteria agent is made of engineering strains through aseptic fermentation freeze-drying process and unique enzyme treatment technology. It is the best choice for sewage treatment projects, landscape water treatment, river courses, and lake ecological restoration; 2. In the anaerobic tank, it can quickly destroy the ring, decompose the macromolecular organic substances that cannot be used in the aerobic stage into small molecular organic substances and gas methane to the air to achieve the effect of removing COD in the anaerobic stage, and improve the organic matter removal capacity in water. Especially for various components that are not easy to decompose; 3. It has a strong ability to resist impact loads and toxic substances; it has a strong ability to withstand low temperature and can start quickly in low temperature seasons.
Usage Method	According to the water quality index of the biochemical system, the industrial wastewater should be added in an amount of 100-200 g/m^3 for the first time (calculated according to the volume of the biochemical pool). The dosage of strengthening biochemical system is 80-100 g/m^3 (calculated according to the volume of biochemical pool). The amount of municipal sewage added is 80-100 g/m^3 (calculated according to the volume of the biochemical pool).

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Use Parameters	Tests have shown that the following physical and chemical parameters are most effective for bacterial growth: 1. pH: The average range is between 5.5 and 9.5, and the fastest growth can be achieved between 6.6 and 7.8. Practice has proved that the pH of 7.5 is the best for treatment efficiency. 2. Temperature: It can take effect between 8°C and 60°C. If the temperature is higher than 60°C, the bacteria will die; when the temperature is lower than 8°C, the bacteria will not die, but their cell growth will be greatly restricted. The most suitable temperature is 26-32°C 3. Dissolved oxygen: In the aeration tank in sewage treatment, the dissolved oxygen amount is at least 2 mg/L; the metabolism and degradation speed of the target substance will be accelerated by 5-7 times. 4. 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. 5. Salinity: It is suitable for industrial sewage with high salinity, and can tolerate a salinity of up to 6%. 6. 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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