CREATIVE BIOMART®
Microbe

Nitrifying Bacteria 2

SPECIFICATION

Cat.No.	EPB-017
Product Name	Nitrifying Bacteria 2
Product Ingredients	Nitrifying bacteria, Alcaligenes, enzyme preparations, trace elements, 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.
Efficacy and Effect	1. This product can rapidly multiply in the biochemical system and hang film on the filler, convert the ammonia nitrogen and nitrite in the sewage into harmless nitrogen and release it from the water body, so as to achieve the effect of rapid degradation of ammonia nitrogen and total nitrogen, and reduce the release of odor amount, inhibit the growth of spoilage bacteria, reduce the production of methane, ammonia and hydrogen sulfide, and reduce air pollution; 2. By adding nitrifying bacteria, this product can shorten the acclimation time and film-hanging time of activated sludge, accelerate the start-up of sewage treatment system, reduce the residence time of sewage, and improve the overall treatment capacity; 3. Adding nitrifying bacteria in the sewage treatment process can improve the ammonia nitrogen treatment efficiency of sewage by more than 60% on the original basis without changing the treatment process, and reduce the treatment cost. It is an environmentally friendly and efficient microbial agent.
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

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	biochemical pool).
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 7.4. Practice has proved that the pH of 7.2 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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