CREATIVE BIOMART® Microbe

COD Degrading Bacteria 2

SPECIFICATION

Cat.No.	EPB-028
Product Name	COD Degrading Bacteria 2
Product Ingredients	Acinetobacter calcium acetate, buds and bacilli, high-efficiency flocculating bacteria, Saccharomyces, Micrococcus, enzymes and nutrients, 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. The COD degrading bacteria agent is made of engineering bacteria through aseptic fermentation spray drying process and unique enzyme treatment technology. The best choice for water treatment projects, landscape water treatment, ecological restoration of rivers and lakes. 2. Improve the ability to remove organic matter 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 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 30-50 g/m^3 (calculated according to the volume of biochemical pool). The amount of municipal sewage added is 30-50 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 7.8. Practice has proved that the pH at 7.5 has the best 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 of the target substance will be accelerated by the bacteria with high adaptability in sufficient oxygen 5 to 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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