

CryoStart™

Cold Weather Bioaugmentation

Product Description

CryoStart™ is a formulated blend of cold weather tolerant (cryophilic) strains and enzymes that are capable of biodegrading a wide variety of chemicals and materials commonly found in municipal and food & beverage wastewater streams, including simple sugars, proteins, fats, and oils.

Product Application

CryoStart is suitable for use in both activated sludge systems and aerated stabilization basins.

Proactive bioaugmentation of an aerated lagoon system with **CryoStart** can help reduce BOD breakthrough when there are rapid decreases in temperature, sustained cold temperatures, and increased loading events during cold temperatures.

Key Product Features

- Contains cryophilic and low temperature strains capable of maintaining viability at temperature ranges of 39-120 F (4-50 C)
- In side-by-side testing against a traditional *Bacillus* blend at cold temperatures, **CryoStart** was able to degrade more biological oxygen demand (BOD) indicating better protection of an aerated lagoon system during increased loading events occurring during the winter season.
- In side-by-side testing against a traditional blend at cold temperatures, **CryoStart** treatment resulted in higher total and volatile suspended solids (TSS/VSS) indicating an increase in biological activity.
- Contains aerobic and facultative anaerobic strains capable of performing under a wide range of dissolved oxygen concentrations.
- Contains strains which perform well in low pH and high fat situations.



Application Rate and Feeding

Product can be used alone, but when used in conjunction with EBS's Bacterial Acceleration Chamber™ (BAC) unit, cell count growth of 50-100x can be achieved.

Product Properties

Physical State: Granular.

Specific Gravity: 0.4 - 0.5 (g/cm³)

Solubility in Water: Soluble.

Partition Coefficient (n- octanol/water): Not determined.

Available in 25-pound pails, containing 25 individual water-soluble bags

Additional Technical Support

The EBS microbiology lab can monitor the biological health of your system over time using microscopic exams and flow cytometry to assess total and live bacterial cell counts. Our Advanced Analytical Lab analyzes for toxic or inhibitory compounds from industrial processes through the use of GC and HPLC, identifying problematic compounds that can disrupt nitrification. These value-added services, in conjunction with our product offerings, create a unique value proposition for EBS clients while ensuring that product application results in maximum effectiveness.

To determine if CyroStart is right for your application, contact EBS at (985) 674-0660 or at info@ebsbiowizard.com.



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