

LAB STUDY REPORT



EnviroDEFENSE[®] Starch Degradar Test: Starch Compounds

Airmax

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EnviroDEFENSE® Starch Degradar

Lab Studies

Product Overview

A specially formulated bacterial blend specifically designed for the removal of contaminants in various commercial and residential garbage/compost systems.

EnviroDEFENSE® Starch Degradar is a specially formulated bacterial blend that aids in the removal of various contaminants in industrial Starch Degradar systems. Because EnviroDEFENSE® Starch Degradar is highly effective, economical and eco-benign, it continues to provide the ideal solution to Starch Degradar clean-up due to ever-changing and demanding regulations. The naturally occurring bacteria formulated in EnviroDEFENSE® Starch Degradar works by digesting organic waste materials to prevent malodorous situations and sludge build-up. EnviroDEFENSE® Starch Degradar has also demonstrated great success in the degradation of many types of industrial wastes including surfactant, solvent and polymer residues, starch, cellulose, FOGS and petroleum hydrocarbons.

Advantages of EnviroDEFENSE® Starch Degradar

- GREATLY REDUCES LABOR TIME
- DEGRADES A WIDE RANGE OF ORGANIC COMPOUNDS
- ENHANCES BOD/COD REMOVAL
- REDUCES HYDROGEN SULFIDE
- COST-EFFECTIVE AND EASY TO USE
- REDUCES SLUGE BUILD-UP
- INCREASES SYSTEM EFFICIENCY
- CONTAINS NO HARSH CHEMICALS
- ELIMINATES MALODORS AT THEIR SOURCE
- BREAKS DOWN FAT AND GREASE BUILD UP

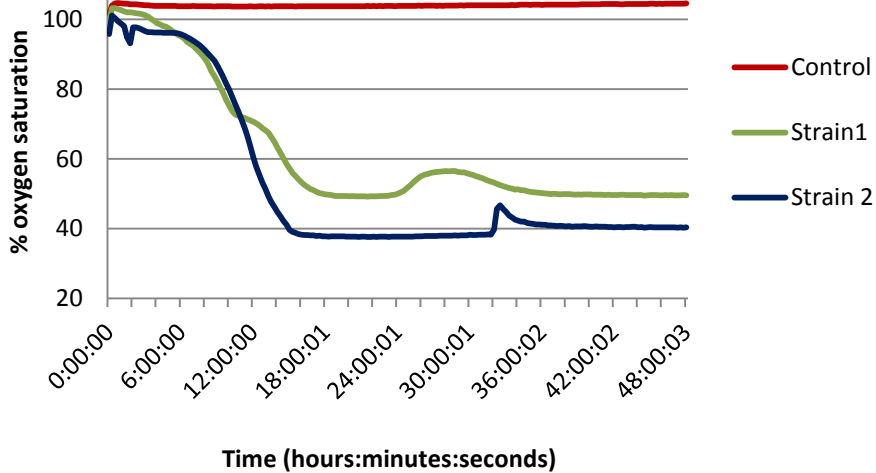
Applications

- Waste Water Treatment Plants
- Starch, Pulp & Paper Mills
- Septic Systems & Lagoons



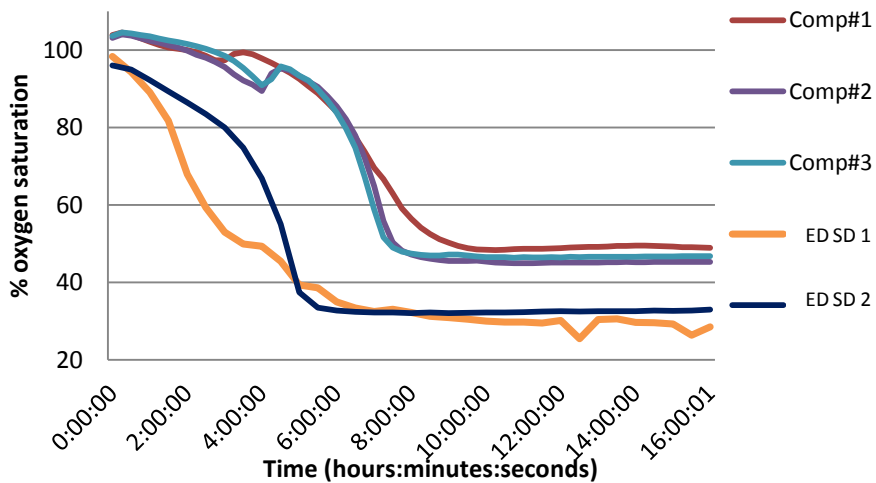
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THE DEGRADATION OF A SURFACTANT (TWEEN 80) BY 2 STRAINS OF ENVIRODEFENSE® STARCH DEGRADER

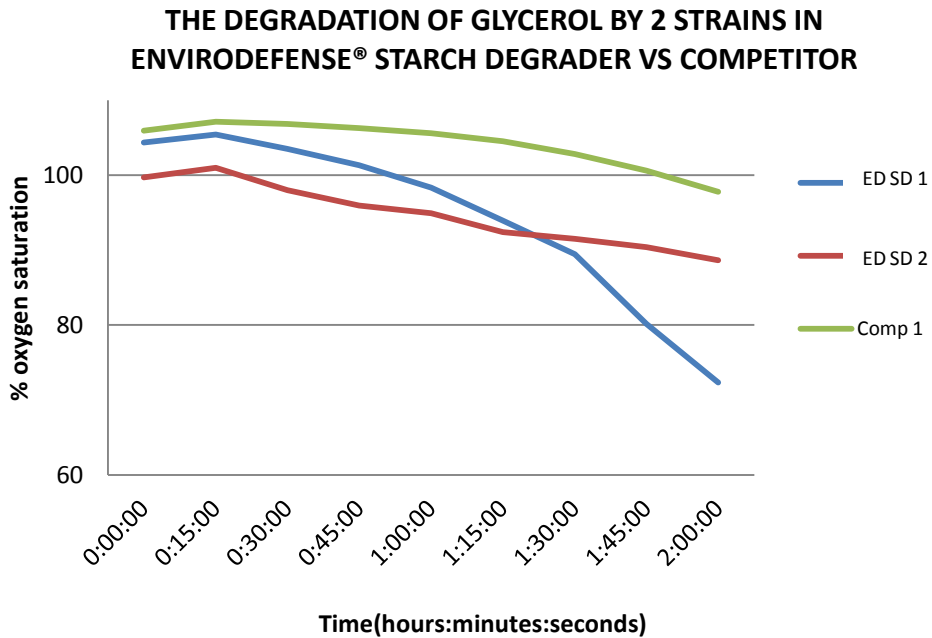


The graph above shows the degradation of a surfactant (tween 80) by two strains in EnviroDEFENSE® Starch Degradator. As the substrate is degraded the % oxygen saturation decreases.

THE DEGRADATION OF STARCH BY TWO STRAINS IN ENVIRODEFENSE® STARCH DEGRADER VS COMPETITOR

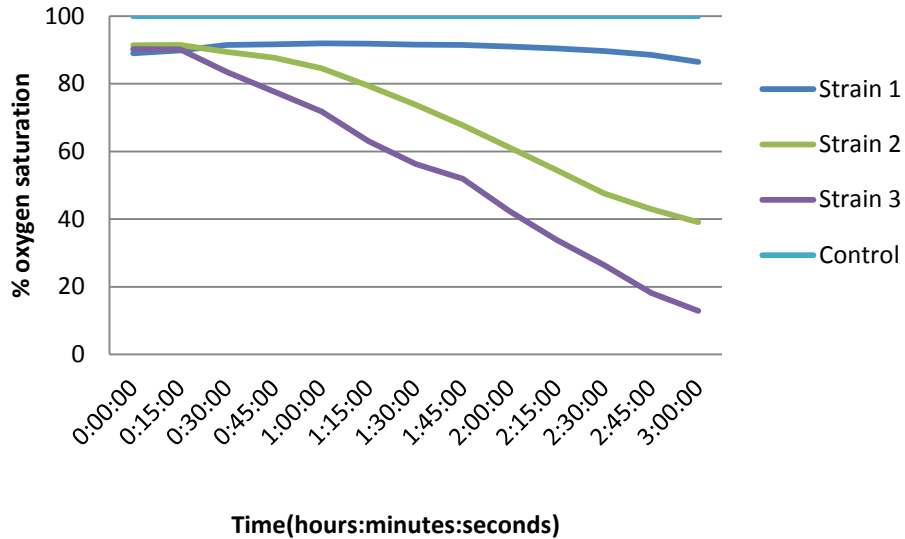


The graph above shows the degradation of starch by two strains in EnviroDEFENSE® Starch Degradator versus competitors' strains. As the substrate is degraded the oxygen saturation decreases. The EnviroDEFENSE® strains show better degradation of starch versus the competition.



The graph above shows the degradation of glycerol by two strains in EnviroDEFENSE® Starch Degradator versus a competitor. As the substrate is degraded the % oxygen saturation decreases. The EnviroDEFENSE® strains show good degradation on glycerol versus a competitor.

THE DEGRADATION OF STEARIC ACID BY THREE STRAINS OF ENVIRODEFENSE® STARCH DEGRADER



The graph above shows the degradation of stearic acid by three strains in EnviroDEFENSE® Starch Degradar. As the substrate is degraded the % oxygen saturation decreases.

Technical Specifications For EnviroDEFENSE® Starch Degradar

Targeted Compounds	Cellulosic material, fibrous wastes, pulp, paper, starches, surfactants, malodors.	
Bacterial Count	2 Billion CFU's bacillus spores + pseudomonas.	
Bacterial Type	Bacillus spore blend + pseudomonas.	
Formula Properties	Tan, free flowing powder with earthy odor. (Available in Canadian approved (CB) formulation).	
Performance Properties	Effective pH Range: 4.0-11.0	Temperature Range: 45-120°F (5-50°F)
Packaging	12-16 oz Bottles & 50 lb Containers (Shelf life of 24 months in an original unopened container).	



For More Information Call:

866-424-7629

www.envirodefenseproducts.com



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