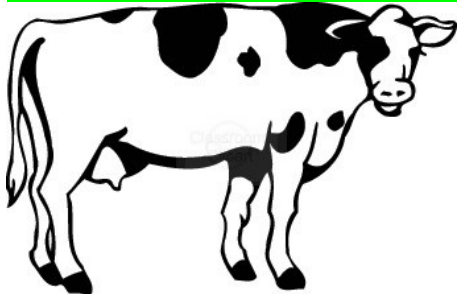


MAXimize Your Manure

BENEFITS OF BACTZYME

- Ensures rapid biological start-up
- Enhances and accelerates the biological digestion of animal wastes
- Reduces costs of manure pit maintenance and drainage
- Breaks up solids and decreases organic content
- Self dissolving - just toss them in!
- Increases crop production
- Stabilizes ammonia nitrates, phosphorus & Odor



Bio Logical
SOLUTIONS, Inc.



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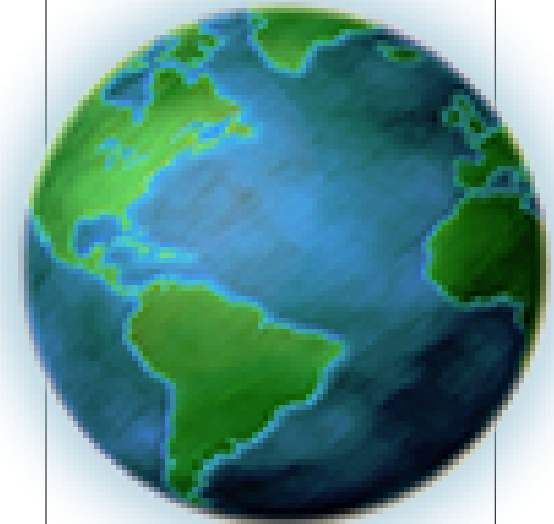
BactZyme - Manure Pit Treatment

For Liquid Manure Storage Systems

Greatly Accelerates Manure Digestion

Stabilization of:

**Ammonia Nitrates,
Phosphorous & Odor**



**Assists with meeting environ-
mental regulatory requirements.**

Better Soil Penetration

Increased Crop Production

Reduction in Chemical Fertilizers

1-800-798-9204

Application Rates

Bactzyme is easy to use. There are no complicated formulas you need to calculate, no mixing and measuring involved. The math is simple with our easy to use water soluble packaging.

Shock Treatment (1x only)

- 4 Packs Per 100 cows
- 4 Packs Per 200 Heifers
- 4 Packs Per 400 Calves
- 4 Packs Per 100 Sows
- 4 Packs per 300 Finishers

Weekly Maintenance Treatment

- 1 Packs Per 100 cows
- 1 Packs Per 200 Heifers
- 1 Packs Per 400 Calves
- 1 Packs Per 100 Sows
- 1 Packs per 300 Finishers

Product Specifications

100% bacterial culture on cereal bran carrier with micronutrients and biostimulants

Total Bacterial Count - 5 billion / Gram

Form - Free Flowing Powder

Colour - Natural

Packaging - 1/4 lb Water Soluble Packaging

pH - Neutral

Shelf Life - 2 years

Store in a Cool Dry Place

DO NOT FREEZE

For more information, visit
www.bslagoontreatment.com

Proven Performance Since 1995

Anaerobic and toxic conditions exist in all lagoons. BactZyme is an all natural blend of Facultative Bacteria and nutrients used to reduce odors and solids in lagoons by breaking down these anaerobic and toxic conditions. When applied to plants, lagoons, and ditches, BactZyme releases all-natural, environmentally safe, enzymes that galvanize the natural digestive process of solid waste breakdown. Eco-friendly enzymes and nutrients are also introduced which accelerates the biological activity and decomposition of solid waste.

Along with breaking down the solids that accumulate in the system, BactZyme also promotes and accelerates the growth and activity of additional helpful microorganisms. These microorganisms help break down and process toxic and harmful materials in both the waste water system and land/discharge applications

Specifically, what will Bactzyme do?

Through accelerated digestion, Bactzyme will liquefy solid material so that it's easier to agitate, pump and irrigate. Treated lagoon can be pumped lower than ever before with fewer plugging problems. Once transferred to cropland and because it's already predigested, this manure will soak into the soil faster with less chance of caking on the field surface.

By increasing the level of bacterial activity in the lagoon, Bactzyme actually prevents bad odors from forming in the manure. This will be noticed at the time of applying the manure on the field and consequently much less offensive to neighbour's noses and friendlier to the environment as a whole

What's the point of adding more bacteria if natural bacteria are already present?

The bacteria in nature are kept in check by organisms in the food chain that eat them and are not always suited to the kind of wastes in which they find themselves. In the case of some waste, the natural bacteria may not be accustomed to using it as a food source. By flooding the system with a carefully selected and enhanced combination of organisms, the added bacteria have an enormous competitive advantage.

If the additional bacteria reproduce in the field, why isn't one dose sufficient?

Every succeeding generation of the introduced bacteria (after the first 10) reverts more and more toward a "wild" state. In other words, after "breeding" in the waste for 10 or more generations, the descendants of this bacteria becomes more and more indistinguishable from the wild or natural population.

What makes BactZyme different from other products on the market?

BactZyme contains only enzyme producing bacteria, where many other products are liquid bacterial stimulants that are meant to stimulate existing bacteria to better performance. These are typically more expensive and marginally effective. Bacterial products have proven themselves to be much more effective at a far lower cost. Bactzyme cannot be beat for convenience. Because of its pre packaged, pre measured water soluble packaging, there is no hassle. BactZyme does NOT have to be mixed with water before putting the product into the lagoon. This convenient pre packaging also ensures uniform application rates on a weekly or bi weekly basis.

Does Manure Treated with BactZyme have any value in Crop Production?

Absolutely! As a result of the digestion process, much of the nitrogen in the manure is bound up in the bodies or cells of the bacteria that have been thriving in the lagoon. This is an organic form of nitrogen that will be released slowly to a growing crop as the bacteria degrade in the soil. Untreated manure can easily burn crops if over applied because the levels of ammonia and other fast acting nitrogen are so high. The bactzyme stabilizes the waste nutrients and is also why the odors are prevented from forming.

Does Cold Temperature affect the BactZyme?

BactZyme will remain active in the lagoon. There a different factors that contribute to this including Ground temperatures, daily inflow and heat generated by the bacteria themselves. Bacterial activity will increase as the temperatures go up, it is critical that the BactZyme be applied year round to treat the volume of waste produced every week by the cattle.