



Bio-Boost Pro™

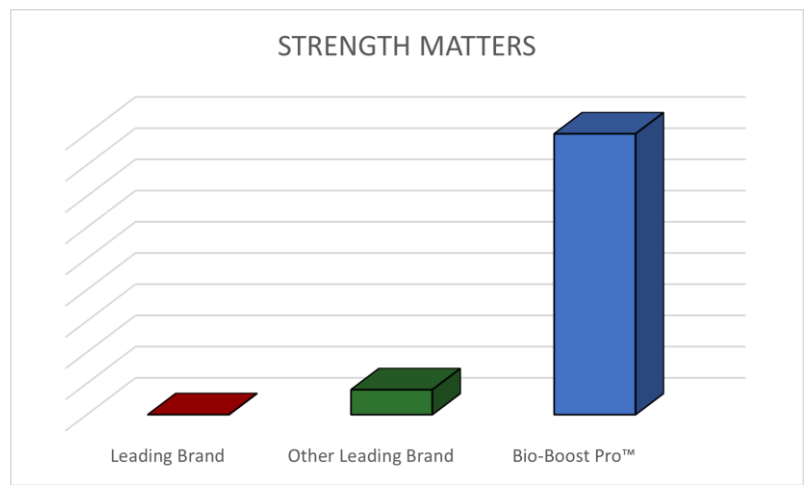
Municipal Wastewater Treatment

An innovative way to treat your drain lines, lift stations and lagoons. Bio-Boost Pro™ is a super concentrated tablet containing one trillion microbes and enzymes designed to accelerate digestion of solid waste and reduce odours, gases, and sludge build up in Municipal drain lines, lift stations and lagoons. Bio-Boost Pro™ is safe for all pipes, plumbing and wastewater systems.

Bio-Boost Pro™ combines the natural power of microbes and enzymes into a convenient, super-concentrated tablet engineered to accelerate the biodegradation of paper, oils, grease, and other organic waste that build up and settle in drain lines, lift stations and lagoons.

Product Highlights

- ✓ Natural Biological Treatment
- ✓ No Bulky Insoluble Fillers
- ✓ Chemical Free
- ✓ Safe for all Wastewater Systems
- ✓ GMO Free
- ✓ Acid and Caustic Free
- ✓ Super-Concentrated
- ✓ Reduces BOD5 and COD
- ✓ Reduces FOG and Sludge
- ✓ Improves Effluent Quality
- ✓ 4 bacillus strains and 4 enzymes*



*Bacillus Strains: B. subtilis, B. licheniformis, B. amyloliquefaciens, B. megatherium / Added Enzymes: cellulase, amylase, lipase, protease

Strength Matters

Bio-Boost Pro™ contains the strongest concentrated blend of 4 highly resilient bacillus strains designed to work independently and synergistically in all wastewater treatment applications. Each strain has their own biological degradation uniqueness. When combined in different environments there is a creation of multi complex symbiotic biological decomposition. With added enzymes it accelerates the biodegradation process in turn reducing waste naturally.

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What's Inside

Bacillus subtilis. A hardy bacterium that thrives in harsh environments. It breaks down complex organic matter into simpler forms, making wastewater treatment more efficient. Its resilience makes it a perfect candidate for the job, even under intense conditions.

Bacillus licheniformis. This bacterium is a master at producing enzymes. It's these enzymes that help decompose the organic waste in water, transforming it into harmless substances. It works tirelessly, ensuring that our wastewater is safe and clean.

Bacillus amyloliquefaciens. This bacterium has a knack for producing biofilms, a protective layer that helps in the removal of heavy metals from wastewater. It's like a microscopic shield, safeguarding our water from harmful pollutants.

Bacillus megatherium. This bacterium is a powerhouse in breaking down fats and oils, those stubborn substances that can clog up our water systems. It's like a tiny plumber, keeping the water flowing smoothly.

Cellulase. This enzyme is a specialist in breaking down cellulose, a complex carbohydrate found in plant cell walls. When wastewater contains plant waste, cellulase is the key player. It breaks down the cellulose into simple sugars, making it easier for bacteria to digest and convert into harmless substances. Without cellulase, plant waste would be much harder to decompose, slowing down the entire treatment process.

Amylase. This enzyme is a master at breaking down starch, a common component of food waste. Amylase transforms starch into simpler sugars, which bacteria can then easily consume.

Lipase, the fat fighter. Lipase works on fats, oils, and grease, collectively known as FOG. It breaks down these substances into fatty acids and glycerol. This process not only reduces the volume of waste but also prevents blockages in the treatment system.

Protease, the protein pulverizer. Protease breaks down proteins into amino acids, which bacteria can then use to grow and reproduce. This enzyme is essential in treating wastewater containing animal waste or other protein-rich substances. Without protease, these proteins would take a long time to decompose, prolonging the treatment process.

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Restoring Balance in Lagoons

The use of microorganisms to degrade waste is an established practice in wastewater treatment. However, the population of naturally occurring microorganisms is most often unable to keep up with the waste supply. A sudden surge in contaminants or filamentous bacteria can overload a system. Cold weather will slow natural microbial activity, decelerating waste degradation. A low oxygen supply can also hinder efficient treatment processes and increase odors. By adding Bio-Boost Pro™ to your wastewater system this helps create a healthy microbial population that can keep up with the supply of contaminants and restore the balance in your lagoon.

Lift Station and Drain Line Maintenance

Lift stations are commonly used as a part of operations across a variety of different industries. While they are extremely useful, they can be difficult to maintain when not cared for properly. The solid components of sewage, including sludge and fats, oils, and grease (FOG), that move through lift stations can accumulate during periods of low flow. This can cause major headaches for operators. By adding Bio-Boost Pro™ to your lift stations and drain lines it will help keep floats clean, reduce grease build-up, odours, and emergency blockages. It will also help save money on line jetting costs and disposal costs.

Application: All wastewater systems need a healthy bacterial population so they will function efficiently. Over time oil, grease, paper, and other organics build up in your wastewater system and the natural degradation process is dramatically decreased due to overloading, bleach agents, pharmaceuticals, and disinfectants. Bio-Boost Pro™ delivers a concentrated injection of microbes and enzymes into the wastewater system to maintain a healthy biological environment.

Lift station and Drain line Initial Treatment: 4 tablets per lift station or drain line for 5 days straight. Routine Maintenance Treatment: 1-2 tablets twice a week. Dissolve tablets in water prior to drain line treatment if desired or flush down toilet. Treat at the slowest time of the day.

Lagoon (Holding Cell) Initial treatment: 4 tablets per 500,000 gallons of wastewater for 5 days: Routine Maintenance Treatment: 1-2 tablets per 500,000 gallons of wastewater 2x per week. Treat directly in lagoon (Holding Cell) or closest lift station. (The above general treatment recommendations may vary depending on the complexity and severity of your wastewater system.)



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