



BIO CLEANING SOLUTIONS



Bio Tech 10 X FF Concentrate

Application for - Effective artificial lawn cleaning, treatment and odour control
Multi-purpose bio formulation, multi-action microbial consortium

Bio Tech GTX 10 Turf microbial consortium demonstrates superior enzyme performance for use in multiple applications. It exhibits a broad range of degradation capabilities needed for a multi-purpose product efficacious in the cleaning and deodorising and maintenance of artificial grass, waste degradation and cleaning and odour control.

In their natural environment, bacteria produce hundreds of enzymes in response to the organics present in their environment. They produce extracellular enzymes that break down proteins, starches, fats, oils, greases and toilet tissue into smaller particles outside the bacterial cell. The bacteria then transport the smaller particles across their cell membrane for use as an energy source and for building of new cellular components. Since bacteria detect the organics present as potential food and produce specific enzymes to breakdown these organics, it is a very efficient system. Many different enzymes are required to completely breakdown organic waste.

Bio Tech GTX 10 Turf consortium produces key extracellular enzymes including amylase, cellulase, lipase and protease. Organic waste and dirty surfaces are nutrient rich systems for bacteria. Although many bacteria can utilize these organics as food sources, it is the bacteria with the most rapid production of these key enzymes that provide the most dramatic cleaning, deodorising and degradation of organics waste.

Safety of Bio Tech GTX 10 Turf Consortium:

Bio Tech GTX 10 Turf contains a blend of safe Bacillus microorganisms. Toxicity studies done by an independent laboratory show that **Bio Tech GTX 10 Turf** consortium has no acute oral toxicity, no acute dermal toxicity, and no acute inhalation toxicity at maximal test dose. Acute dermal irritation and acute eye irritation studies classify the consortium as non-irritating, it does not elicit a skin sensitisation reaction.

DATA SHEET

Benefits and Areas of Use	Features
<ul style="list-style-type: none"> • Artificial Turf • Carpets • Cars • Commercial Turf • Dog Day Care • Dog Kennels, Shelters • Grease Traps • Health Clubs • Hospitals • Multi-Purpose Fields • Natural Grass • Pet a Potty's • Portable Toilets • Schools • Septic Tanks • Sink Drains • Veterinary Clinics 	<ul style="list-style-type: none"> • A stable consortium of safe Bacillus spores • Production of multiple enzymes providing a wide range of degradation capabilities • A synergistic blend that works in concert to provide superior performance across multiple applications • Excretion of high levels of amylase, cellulase, lipase and protease enzymes • Ability to work under aerobic and anaerobic conditions • Single product simplicity for multi-application flexibility

Other areas of use:

- **Drain lines and grease traps** – degrades and eliminates organics found in drain lines and grease traps. Regular addition of **Bio Tech GTX 10 Turf** maintains a cleaner and odour-free system.
- **Septic and waste treatment** – maintains effective activity in septic systems, eliminating the need for excessive pumping. Eliminates odours caused by incomplete digestion of malodorous volatile fatty acids.
- **Hard Surface and Bathroom cleaning and odour control** – penetrates cracks, crevices and pores of surfaces where organics accumulate, removing the organics leaving a visually cleaner surface. Provides long term odour control by removing the organics that cause odours and prevents their return.

PRODUCT CHARACTERISTICS

- **Bacteria Counts** : 6.6 X 10⁸ cfu/ml
- **Bacteria Type** : Bacillus consortium producing the following enzymes:
 - ✓ **Protease** – breaks down proteins (e.g. meat, excreted/secreted proteins) into amino acids.
 - ✓ **Lipase** – breaks down fats/grease into fatty acids and glycerol. If not broken down, fats can go rancid and lead to off-odours and blocked drains/fat grease traps.
 - ✓ **Amylase** – starch acts as a glue for dirt – amylases catalyse the break-down of starch into sugars which are then further used as a food source by the bacillus.
 - ✓ **Cellulase** – breaks down cellulosic material.
 - ✓ **Urease** - catalyzes the hydrolysis of urea into break-down products.
 - ✓ **Esterase** - splits esters into an acid and an alcohol in a chemical reaction with water called hydrolysis. Esters have characteristic odours most of which are pleasant/fruity, however can also include onion/garlic and worse odours.
 - ✓ **Xylanase** – help in breaking down plant cell walls.
 - What this means – the bacillus use the multitude of enzymes produced to break down the components of malodour and staining to provide microbial cleaning at the smallest level of dirt/contamination.
- **Salmonella** : Not detected
- **Appearance** : Creamy white
- **Fragrance** : Pleasantly perfumed
- **Shelf-life** : Two years; maximum loss of 1.0 log at recommended storage condition

Dose rates:

Bio Tech GTX 10 Turf can be diluted to the following ratio 1:9 (one part **Bio Tech GTX 10 Turf** and 9 parts water) but must be used on the day and any remaining liquid should be discarded.

Bio Tech GTX 10 Turf is designed as a bio-technical aid to treatment of organic waste material offering the following advantages; liquefaction and reduction of solids, reduction of odor, easier disposal of waste, aids general cleaning of soiled areas, safety in operation of effluent systems, offers a viable alternative to current processing techniques using a bio-technical approach. **Bio Tech GTX 10 Turf** is not to be used in conjunction with other chemicals or disinfectants, as this will have a detrimental effect on the viable bacteria.

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