

BIO-STAR™ FL, FL+

Bacterial product for manure treatment

Bio-STAR™ FL is a ready-to-use powder product specially designed to accelerate the digestion and biodegradation of organic compounds of liquid and solid manure.

It consists of a consortium of specially adapted natural soil bacteria selected for their exceptional digestive capacities. The higher enzymatic capacities of the selected strains augmented with the micronutrients and trace elements enhance the degradation of cellulose fibres, sugars and proteins thus optimizing the accelerated growth rate of the microbes. This active mineralization will also maximize the fertilizer value of animal waste and therefore improve crop yield.

A second product **Bio-STAR™ FL+** contains additional strains of bacteria and a blend of enzymes specifically for a significantly larger work load, or in less-than-ideal conditions.

All components are registered on Environment Canada's Domestic Substances List.

BENEFITS:

- Improves and enhances the biological degradation of animal wastes.
- Liquifies manure for easy pumping
- Reduces formation of bad odors.
- Reduces surface crust of manure pits.
- Maximizes the fertilizer value of manure.
- Improves internal and external air quality.

APPLICATIONS:

- Used for all types of manure
- Confinement areas
- Evacuation systems
- Manure pits and lagoons



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CHARACTERISTICS:

Bacterial count	FL : 3×10^9 cfu/gram FL+ : 5×10^9 cfu/gram
Bacteria Type	A blend of Bacillus and Pseudomonas
Biological pathways	Aerobic and facultative anaerobic
Pathogenic bacteria	Salmonella/Shigella free
pH range	5.0 – 9.8
Temperature range	3°C - 63°C
Appearance	Tan powder
Stability	2 years between (2° - 35°C)

Recommended dosage

Bovine	0.7g/head/day
Pig	0.08g/pig/day
Poultry	0.005g/poultry/day
Evacuation system	1kg/ 35m ³ of manure



Important notice

Bacteria contained in **Bio-STAR™ FL** are of natural origin present in the soil and water. They were selected for their enzymatic abilities to use organic matter as their food source. These bacterial strains were not genetically manipulated. They are harmless for human, animals, plants, and the environment.

First-Aid Measures

In case of contact with eyes, rinse immediately with water for 15 minutes. For skin contact, wash with soap and water. If irritation develops consult a doctor. If ingested, do not induce vomiting, and then drink water. Consult a physician.