

## MicroGest 10X

MicroGest 10X is a unique blend of a select multi-blend of bacterial cultures and starting nutrients, which are effective as a seed (Precharge) maintenance culture for biodegradation of a wide range of organic compounds. They include animal feed and plant waste, oils, and fats. MicroGest 10X is used to improve biotreatment performance and reduce BOD/COD loads in many applications.



## MicroGest 10X

- \*Contains only GRAS ingredients
- \*All bacteria are from natural sources
- \*No mutations
- \*Micro Organisms are non-pathogenic, non toxic, and non hazardous
- \*Is Salmonella/Schigella Free
- \*Shelf life is three years when stored in a cool, dry, place and no direct sunlight
- \*Contains aerobic, facultative and anaerobic bacteria

A product of :



## Brookside Agra L.C.

Brookside Agra L.C.  
787 Sunset Blvd Suite 100  
O'Fallon, IL 62269  
Phone 618-628-8300 Fax 618-628-8333  
Web-Site: [www.brookside-agra.com](http://www.brookside-agra.com)  
E-mail: [donr@brookside-agra.com](mailto:donr@brookside-agra.com)

## MICROGEST 10X



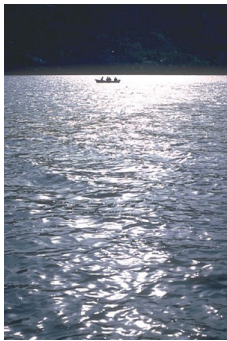
*“A positive product for positive predictable results”*

*A Product of :*

*Brookside  
Agra*

# MicroGest 10X Bacterial Products

## APPLICATIONS OF USE:



\*Poultry Processing Plants

\*Waste Water Treatment

\*Swine Processing Plants

\*Sludge Systems

\*Aerobic and Anaerobic Digestions

MicroGest 10X is a mixture of Bacillus Subtillis subspecies. The subspecies and mixing ratio varies with each individual product, and exact proportions are company confidential information.

The parent Bacillus strains were originally isolated from soil sources. The organisms have not been overly genetically manipulated, nor exposed to chemical mutagens. Each strain has been developed through the process of nutritional adaptation. Bacillus Subtillis is a gram-positive, spore-forming bacteria.

## Characteristics

MicroGest 10X is a product containing a very high CFU/gram of bacteria (highest in industry). Bacillus Subtillis and Sub Species-No Mutants which are designed to:

\*Reduce overall sludge volume in clarifiers and treatment lagoons, through enhanced biodegradation and heightened flock formation with excellent settling characteristics.

\*Optimize degradation of organic waste including fecal matter, blood, and fats and oils.

\*Metabolize organic sediments in stagnant ponds, lakes and aquaculture ponds. Even under low oxygen conditions.

\* Reduces the population of hydrogen sulfide forming bacteria and odors, through species competition.

MicroGest 10X can be used effectively in Aquaculture Ponds, such as shrimp and fin fish to reduce: ammonia levels, increase oxygen, lower death loss, increase feed efficiency



## Mechanism of Action

When rehydrated with water and placed into an aqueous system containing certain essential nutrients, MicroGest 10X Cultures soon become the dominant organisms in the system and bioconvert the organic contaminants into fractions of smaller molecular weight. Ultimately, many compounds will be completely metabolized as a source of carbon for cell growth. When maintained as the dominant organism in the treatment system through control of environmental conditions and periodic addition of fresh cultures, BOD/COD reductions can be anticipated for many organic wastes within a few weeks to months.

MicroGest10X cultures are facultative anaerobes and achieve the bioconversion of organic compounds through both catabolic and metabolic enzyme digestion, under both aerobic and anaerobic conditions. MicroGest 10X cultures function well under both conditions, however, biodegradation efficiency is improved if oxygen is plentiful in the treated environment. Typically, shallow circulating bodies of water contain adequate levels of dissolved oxygen.

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