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COMPOST ACCELERATION

Compost — consists of organic material decaying through biological means. The biological media are normally various types of bacteria that virtually feed until they cannot eat anymore or their food source has been depleted.

Natural Compost — requires the use of bacteria that occur naturally during the compost process.

Accelerated Compost — is the use of selective adaptation of non-pathogenic bacteria in large numbers to increase compost decay and decrease the idle time between start to finish. This is very important, if one is looking at reducing process time.

Adaptive Bacteria — **Should not be confused with genetic engineered bacteria!** Adaptive bacteria are those found in the wild that have adapted to a specific food source. These specialized bacteria are then collected and reproduced in large quantities for special applications. One particular example of selective adaptation bacteria, are those used to clean up oil contamination, **fats, oils, and grease (FOG)**. These bacteria are trained on a specific diet relative to their feeding habits such as oil.

Unlike their wild cousins, in nature, these bacteria were nurtured and fed a specific diet without starvation. Since these bacteria were constantly introduced to a specific food source, they have become "specific food dependent"! This means they are highly trained, ready and willing when introduced to their favorite food source.

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COMPOST ACCELERATION (CONTINUED)

Numerous types of bacteria that will rapidly feed on what ever type of food source, for which they are best adapted are collected. Then, the bacteria that are best suited for the type of compost with which you are working, are selected. The selected bacteria is then applied to the compost, which results in an "**Accelerated Compost**" degradation

True composting requires time and labor to process organic material. We recommend the **JET COMPOST** digester which is a state of the art in-vessel digester. This digester is portable, programmable and uniquely designed with an air induction system. Unlike most in-vessel digesters that add air by the rotation or tumbling sequence. The **JET COMPOST** digester adds air through rotation and air induction. The combination of our Compost Acceleration Bacteria and the **JET COMPOST** digester together, yields a highly palatable compost in a reduce time compared to traditional compost processes.

Ask your representative about our state of the art **JET COMPOST** digester and alternative farming opportunities.

*"WE WILL DEVELOP A CUSTOMIZED PROGRAM
TAILORED TO YOUR NEEDS!"*

Premium Sales & Service, LLC.

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PREMIUM SALES & SERVICE, LLC

*"ENVIRONMENTAL SOLUTIONS
for TODAY'S problems"*

• BIOAUGMENTATION

The New Generation Technology for the management of Commercial, Agriculture and Municipal Waste Streams

• **POULTRY** Litter / Air Quality Management Programs

• **ODOR** Control for Commercial, Agriculture & Residential

• **COMPOST** Acceleration Programs



SOLUTIONS Today!

BIOAUGMENTATION

WHAT IS BIOAUGMENTATION? It is the addition of commercially prepared bacterial cultures to supplement the existing bacterial population. These selectively adapted bacteria are used to enhance bio-mass activity by correcting or improving the current process. Other products may be used to stimulate growth of bacteria by addressing deficiencies encountered (micronutrients, vitamins, etc.).

BENEFITS OF BIOAUGMENTATION:

- **Accelerate system startups to achieve steady-state operation in days as opposed to weeks.**
- **Enhance removal of pass-through or difficult-to-degrade compounds (surfactants, solvents, FOG's, petroleum hydrocarbons, etc.)**
- **Improve BOD and Total Suspended Solids (TSS) removal efficiency**
- **Sludge reduction through increased enzymatic activity on biodegradable solids**
- **Foam reduction due to degradation of surfactants and de-stabilization of filamentous bacteria**
- **Odor reduction due to greater degradation of odor-causing compounds (H₂S, mercaptans, amines, volatile fatty acids, etc.).**
- **Improved solid settling by destabilizing filamentous organisms.**
- **Other benefits include: improved nitrification (ammonia removal), polymer reduction, greater oxygen transfer efficiency, and less costly alternative to retrofitting plant in some cases.**

BIOAUGMENTATION SERVICES INCLUDE:

- **Free Process evaluation**
- **Individual regiment design with ongoing system evaluation**
- **Microbiologist support and training**
- **Data collection and industry correlation**

LET US HELP YOU WITH YOUR CHALLENGES!

PREMIUM POULTRY "BIO-TREAT" PROGRAM

Poultry litter beds are infested with harmful bacteria. Our **Premium Poultry "Bio-Treat" Program** introduces billions of **NON-PATHOGENIC** adaptive bacteria into the litter. These helpful bacteria compete with known disease-causing bacteria for food, and due to the increased numbers of non-pathogenic bacteria, the pathogenic bacteria are virtually starved out. The result is a rejuvenated litter bed that gives the chick a healthy growth environment. Years of field testing and hundreds of grow out experiences have proven chicks that have had the benefit of the **Premium Poultry "Bio-Treat" Program** will exhibit an increase in **livability, less condemned weight, better feed conversion and weight improvement.** The farmer will experience **lower fuel cost, less caking, improved air quality (lower ammonia levels, etc.),** and by being in a constant state of reconditioning, the life of the litter bed can be prolonged **indefinitely.** The effects of the **Premium Poultry "Bio-Treat" Program** are cumulative; therefore, prolonged use of this program increases poultry production, which results in financial gain to all.

Ask about our application program that is second to none. This is a total all in one program that will help create a DISEASE FREE environment.

NEXT GENERATION ODOR CONTROL

At one time or another we have all encountered a profound stench whose source could not be found. In the past we have had to accept nuisance odors and classify them as unavoidable. However, times have changed and today's society will not tolerate undesirable smells coming from; industry, waste treatment facilities, agriculture etc.

As a result many companies are marketing "quick fix" products that do not control odors but attempt to cover up the smell by masking it. In some instances the masking agent employed, reacts with the odor, creating a new pungent aroma that is no less undesirable. In addition, chemicals normally used, cause additional concerns such as, environmental problems, health hazards, safety challenges, and the list increases. Today's cost conscience and quality driven consumers are requiring products to meet higher quality standards, must be safe, environmentally friendly and economical.

Premium Sales & Service, LLC

specializes in odor control without the use of enzymes or harsh polluting chemicals in the following areas:

- **WASTE WATER**
- **COMMERCIAL**
- **RESIDENTIAL**
- **AGRICULTURE**
- **INDUSTRY**
- **HOSPITALITY**

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