



WASTE TO ENERGY FOR MUNICIPALITIES

Superior Technology for the Enhancement of Anaerobic Digesters

Maximize Efficiency and Capacity Volume by up to 10%

Improve Methane Concentration up to 8%

Biologically Reduce H₂S by up to 98% Within Each Retention Cycle

Reduce Solids and Foaming

THE PROCESS

Some organic wastes are more difficult to break down in a digester than others. Food waste, fats, oils, and greases are the easiest organic matters to break down, this is why they're perfect for municipal anaerobic digesters. Stored biogas can provide a clean renewable and reliable source for base load power in place of coal or natural gas.

THE BENEFITS

The use of stored biogas limits the amount of methane released into the atmosphere and reduces dependence on fossil fuels. In addition to climate benefits, anaerobic digestion can lower the costs associated with waste remediation — improving local economies by providing an income stream to municipalities and reducing the cost of operation. The material remaining after the digestion process — digestate — can be used or sold as fertilizer, greatly reducing the need for chemical products.

With over 2,200 operating systems currently, the US has the ability to add over 13,000 new systems with the potential to reduce the greenhouse gas emissions by up to 91% relative to gasoline.

THE SOLUTION

Our Biogas Series products contain unique bacterial formulations that are extremely efficient in stabilizing and maximizing the anaerobic digestion process. Concurrent reductions in sludge and increases in biogas for energy has been the performance factor in most cases.

BGE₁ • Contains highly-specialized microorganisms that are selected and designed specifically to speed up the biological breakdown of all compounds, in addition to driving methane production in anaerobic digestors.

BGE₂ • A biological stimulant formulated specifically for the removal of organic bottom sludge and surface bulking that are slow to degrade. Provides rapid natural sludge and muck removal, and works 80% faster than competitive products.

PROVEN RESULTS

By leveraging innovative bacterial technologies, Ecological Labs has harnessed the power of specialized bacterial "teams" and focused strain products to expedite this natural four-stage biological process, resulting in enhanced methane (CH₄) output.

Our unique formulation of several heterotrophic bacteria, purple sulfur and non-sulfur bacteria, and methanogens excels in degrading resistant compounds to maximize methane production. Beyond methane output, the technology uniquely addresses accumulated digester solids and

foam, while reducing H₂S.

This breakthrough allows the world to harness new energy sources, as well as provide additional income streams for our municipal, industrial and agriculture waste partners.



Effectively Eliminates & Controls H₂S

Maximizes Biogas Production

Enhances Biogas Methane Percentage & Heat Value

Reduces Shut Down Time

Increases Loading Capacity

Enhances & Drives Startup of Biogas Unit

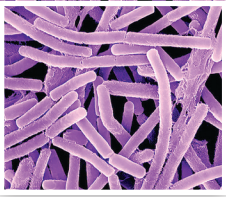
Safe & Effective

Ready to Use

Easy to Apply

SUSTAINABLE SOLUTIONS

Since 1976, Ecological Laboratories, Inc., has been harvesting, isolating, growing and blending beneficial bacteria. Our investment in research and development, combined with experience in the biogas industry is second to none. We provide most, if not all, of our operators with unique cultures to enhance methane production, and reduce maintenance and corrosion of their critical systems.



Introducing Ecological Labs' newest product — Biogas Series by ELI BioSciences. The series is designed to revolutionize the waste-to-energy process by significantly increasing biogas generation and electricity output in anaerobic digesters and lagoons used in dairy, hog, and food processing operations across agricultural, industrial, and municipal facilities.

OUR MANUFACTURING FACILITY

We use our proprietary fermentation process to provide products that are environmentally safe without sacrificing consistent performance. Our highly advanced facility makes the difference when it comes to providing safe, economical, consistent products. All Microbe-Lift® products are manufactured in our FDA and EPA registered facility to food grade standards.

- **Production Clean Room**

Our facility is designed to accommodate our multistage fermentation process by utilizing stainless steel equipment, HEPA filtration for controlled air quality, and operating room flooring to assure a sterile environment during bottling.

- **Warehouse Fulfillment**

Rotating inventory combined with long-term shelf stability allows for quick turn around — usually within a few days of submitting your order. This assures you will receive the products you need, when you need them, without any long delays.

- **Laboratory, Research and Development Center**

At our state-of-the-art facility you will find Genetic Sequencing and Analysis, DNA Amplification, Real Time PCR, Anaerobic Chamber, Nucleic Acid Quantification, Two Culture Banks, and Fermenters.

ABOUT US

At AquaNatural Solutions we supply our customers with not only the best products for the management of waste water systems, but we also pride ourselves with providing our customers with superior personal service. We take the time to analyze the problems occurring in each system, and then we develop treatment protocols specific for the challenges in that system. Understanding that needs change, we continually follow up to insure success, and look forward to working with our customers on a regular basis.

AquaNatural Solutions is an exclusive distributor of Microbe-Lift® products. Manufactured since 1976 by Ecological Laboratories in Cape Coral, Florida, our products contain unique proprietary blends of beneficial bacteria. All Microbe-Lift® products are capable of reducing H₂S and ammonia emissions at the source — lowering complaint calls. The bacteria also diminishes the buildup of fats, oils and grease in lift stations and collection systems, and reduces sludge generated by the operation of secondary biological treatment systems. The savings through the reduction of man hours, equipment costs and handling of these materials can be substantial.

Let Us Help You Find Your Solution...

FDA Registered
Facility # 3005925249

EPA Registered
Facility #74466-FI-001



 **AquaNatural**
SOLUTIONS

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