

# MICROBE-LIFT®

**Ecological  
Laboratories** INC.



## Biological Wastewater Treatment Solutions Organic Reduction, Nitrification, and Denitrification



### Improve Biomass Efficiency. Reduce Inputs. Meet discharge requirements.

Powered by **MICROBE-LIFT IND** for organic load & sludge reduction, and **MICROBE-LIFT NITRIFIER** for rapid ammonia removal and nitrogen compliance.



#### Organic Reduction (IND)

**Targets:** FOG, proteins, hydrocarbons, VFAs

**Delivers:**

- **Lower BOD & COD**
- **Reduce biosolids, reduce sludge** and hauling
- **Clearer effluent** and better settling
- **Strong performance** in aerobic, anaerobic, and anoxic zones



#### Nitrification (NITRIFIER)

**Targets:** Ammonia ( $NH_3$ ) → Nitrite ( $NO_2$ ) → Nitrate ( $NO_3$ )

**Delivers:**

- **Restore and stabilize nitrification**
- **Faster recovery** post-upset or shock loads
- **Supports compliance** with  $NH_3$  and TAN limits



#### Denitrification (IND)

**Targets:** Nitrate ( $NO_3$ ) → Nitrogen Gas ( $N_2$ )

**Delivers:**

- **Nitrate reduction** via anoxic pathways
- **Meets NPDES and local nitrogen discharge standards**
- Promotes a **balanced, sustainable microbial ecosystem**

Most wastewater plants struggle to optimize all three stages of biological treatment. Our **MICROBE-LIFT** protocol makes it simple and natural.

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**Looking to Distribute Our  
MICROBE-LIFT Products?  
Let's Partner.**



# Our Biological Wastewater Treatment Products

Designed for versatility, speed, and real-world performance, our **MICROBE-LIFT** products support the full biological treatment cycle, from organic reduction to nitrification and denitrification.



## MICROBE-LIFT<sup>®</sup> **IND** Advanced Microbial Consortium for Organic Load Reduction

A powerful blend of specialized microorganisms selected to **accelerate the biological breakdown** of problem compounds in wastewater systems.

- Excels in **aerobic, anaerobic, and anoxic conditions**
- **Breaks down FOG, proteins, VFAs, hydrocarbons**, and other hard-to-degrade organics
- Supports **organic reduction, nitrification, and denitrification**
- **Reduces hydrogen sulfide**, helping to prevent odor and corrosion



## MICROBE-LIFT<sup>®</sup> **NITRIFIER** Specialized Biological Nitrifiers for Ammonia Removal

Formulated with Nitrosomonas and Nitrobacter to **drive nitrification** in aerobic treatment systems.

- **Converts ammonia → nitrite → nitrate** for fast, stable compliance
- Ideal for **startup, restart, or recovery** after nitrifier loss
- **Combines with IND to support complete organic and nitrogen cycling**



## MICROBE-LIFT<sup>®</sup> **SA** Bio-Catalyst + Humate for Sludge Acceleration

**Enhances biological performance and reduces bio-solids** in wastewater systems when used alone or in combination with IND.

- Targets difficult-to-degrade substrates for **enhanced sludge breakdown**
- Promotes **reduction of suspended and bottom solids**
- Contains humic acid derived from sub-bituminous coal to support biological activity

## REAL WORLD RESULTS



### Beverage Bottling Plant

**Challenge:** The addition of a new bottling line doubled organic loading to the activated sludge system. Despite source control changes, effluent COD remained >2000 mg/L, far above the regulatory limit of 450 mg/L.

### Results After MICROBE-LIFT Use:

- **COD reduced** to below 50 mg/L within 3 weeks
- **Full compliance achieved** in under 2 weeks
- **Rapid recovery** even after influent spikes
- 90%+ biological treatment efficiency achieved
- Outperformed previous bacterial products used on site

*“We have increased the efficiency of our activated sludge system to more than 90% with the use of MICROBE-LIFT. These efficiency levels had never been achieved before using other bacterial products.”*

— Ing. Danilo Juárez, Head of Plant Maintenance



Trusted by municipal, food, and industrial operators.

Discover how MICROBE-LIFT can enhance efficiency, reduce costs, and ensure compliance. Scan to learn more!

