

Wastewater Treatment Microbes

LTM 2010

Lagoon Treatment Microbes



Industrial Fluid Management's LTM 2010 is specifically designed for wastewater management and upset recovery in municipal wastewater environments.

LTM 2010's specialized consortium of selectively adapted bacteria combines multiple strain capabilities in to a single synergistic blend that addresses a number of applications in municipal wastewater management. **LTM 2010** can improve operational efficiency by allowing rapid build-up of biomass during seasonal hydraulic peak loadings effectively reducing sludge volumes in wastewater lagoon systems.

Specific Benefits

- Improved settling while reducing sludge volumes in lagoon systems.
- Rapidly reestablish BOD removal efficiencies following upset recovery from unidentified industrial discharges or from hydraulic washout in combined systems.
- Control of hydrogen sulfide in the 103 ppm aqueous range in collection systems via competitive inhibition of sulfate-reducing organisms.
- An alternative to trucked-in sludge for start ups or upset recoveries. Best start-up recovery performance may be seen in conjunction with trucked sludge where immediate solids are required for settling purposes.
- Reductions in filamentous abundance in systems where bioaugmentation tips the balance in favor of single-celled organisms.

Features

- Enhance organic removal efficiency of biological systems, providing lower effluent BOD's, COD's and decrease overall sludge production.
- Accelerate start-up of new systems and accelerate recovery after upsets.
- Increase stability of plant operations when erratic influent loadings occur.

General Benefits

- Improved waste system stability and reduced frequency and severity of upsets.
- Reduced effluent organics.
- Enhanced flocculation in activated sludge.
- Higher levels and diversity of protozoa.
- Rapid recovery from load-related and toxic upsets.
- Targeted removal of specific organics.
- Reduced impact of production increases or changes in product mix on effluent quality.
- Reduced municipal surcharges.
- More rapid new plant, seasonal, or post-maintenance start up.

Product Characteristics

Bacteria Count	5 billion/gram
Stability	Loss of 1.0 log/yr when stored under recommended conditions
Appearance	Free-flowing tan powder
Odor	Yeast-like

Product Preparation

LTM 2010 may be added directly to the waste influent stream or aerated basin. For toxic wastes or short retention times, re-hydration for 30-90 minutes prior to addition to a system is recommended using 2 gallons of water per pound of product. For best results, the make-up water temperature should be between 21°-31°C (70°-90°F). For convenience, **LTM 2010** is available in pre-measured water-soluble Solupaks.

Optimum Conditions for Use

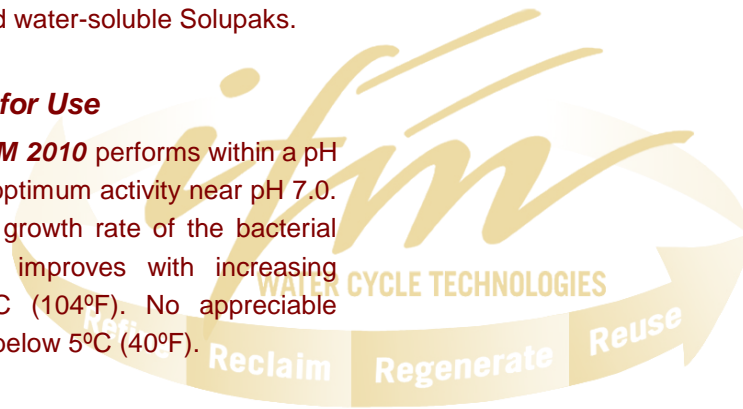
The bacteria in **IFM's LTM 2010** performs within a pH range of 6.0 to 9.0, with optimum activity near pH 7.0. Temperature affects the growth rate of the bacterial population, and activity improves with increasing temperature up to 40°C (104°F). No appreciable activity can be expected below 5°C (40°F).

Available Packaging

- 25 pound pail
- Half-pound SoluPak

Storage and Handling

Store in a cool, dry place. Recommended storage temperature of 1°C-23°C (34°F-73°F). Avoid excessive inhalation. Avoid eye contact. Wash hands thoroughly with warm, soapy water after handling.



**Industrial Fluid Management
IFM, Inc.**
2926 US Highway 6
McClure, OH 43534

www.ifmenviro.com

Customer Service Orders:
Phone: 419-748-7438

Fax Orders:
419-748-7460

E-mail Orders:
ifminfo@ifmenviro.com

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