

ECOSYL™

Silage Additive

MTD/1™

volac 

Ecosyl

Ecosyl contains a special strain of bacteria, MTD/1, which is only found in Ecosyl's range of silage additives. MTD/1 is an unusual strain of *Lactobacillus plantarum* with characteristics that make it particularly effective for use as a silage additive. It produces large amounts of lactic acid quickly and efficiently and is effective over a wide range of pH, temperature and dry matters. It is active throughout the entire fermentation process so, unlike most strains of *Lactobacillus plantarum*, additional helper strains are not required to start the fermentation. This also means that all of the bacteria applied are active immediately.

MTD/1 has been thoroughly tested and proven by leading independent researchers, including Limin Kung, Jr., Ph.D., Richard E Muck, Ph.D., Keith Bolsen, Ph.D.

Trial results show:

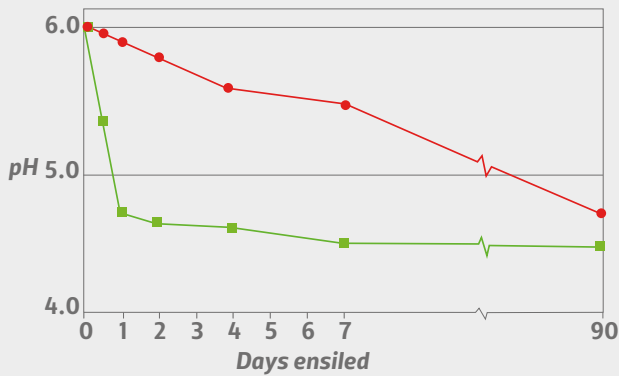
- Better fermentation
 - Faster pH fall
 - More lactic acid
 - Reduced protein breakdown
 - Higher dry matter recovery
 - Increased digestibility
- Improved animal performance
- Proven effective across a wide range of crops and harvesting conditions



The world's most proven inoculant

MTD/1 is recognized by silage experts worldwide to have more supporting trial data behind it than any other additive. It has been thoroughly proven over a wide range of crops and ensiling conditions to improve fermentation and animal performance.

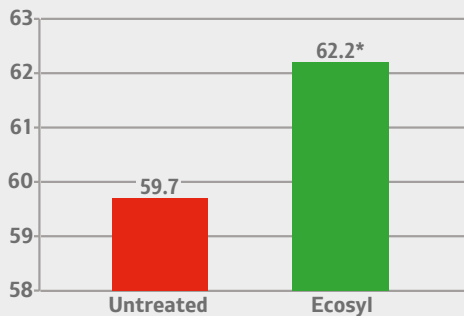
Recently our research team has focused its efforts on improving product formulation and several key innovative breakthroughs have resulted in an improved Ecosyl formulation, making it more versatile for the user while maintaining all the performance benefits.



What's so special about ECOSYL?

MTD/1 is the most extensively researched strain of lactic acid bacteria (LAB) in the world.

- 200+ fermentation trials
- 16 dairy trials worldwide
- 19 beef cattle trials worldwide
- 40 intake/digestibility/ME trials
- 28 dry matter recovery trials

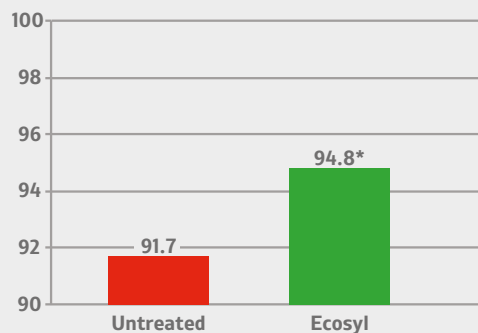


* Statistically significant difference

Milk Yield (lb/cow/day)

16 Dairy Cow Trials

- 2.5lb increase in milk production
- 6 North American trials
– 3.2lb milk increase

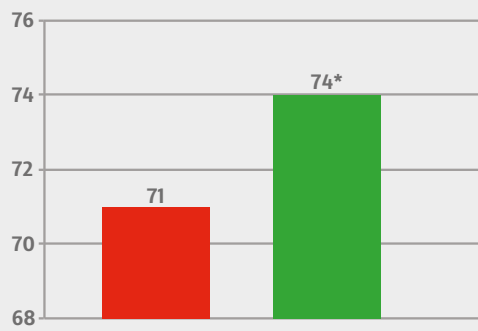


* Statistically significant difference

Dry Matter Recovery (%)

28 Trials

- 3.6% more feed
- 8 North American trials 3.4%



* Statistically significant difference

Digestibility (%)

26 Trials

- 3% increase in organic matter digestibility

ECOSYL Options & Usage

- Available for liquid (50, 200, 400, 800 tons) or dry (50 tons) application.
- Dry – 50lb bags – apply at 1lb/ton.
- Flexible liquid application – from standard rate to low volume rates.
- Unopened bottles or bags can be stored for up to 3 years at 70°F.

Standard Application

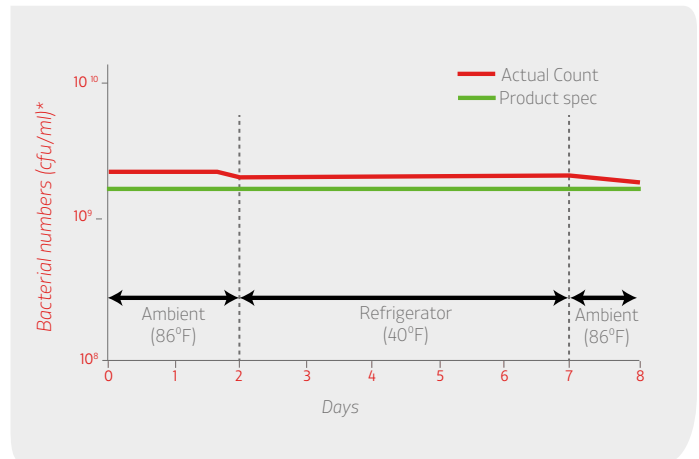
50T/25gal; 200T/100gal; 400T/200gal;
800T/400gal - apply at 2 quarts/ton.

Low Volume Application

In order to minimize downtime and water requirements, ECOSYL liquid has been specially formulated so that it can be applied through low volume applicator systems.

- Excellent mixing and re-suspension characteristics.
- Stays in suspension even when highly concentrated.
- Bacteria remain viable in concentrated tank mix for up to 2 days at ambient temperature.
- Concentrated tank mix viability can be extended by refrigeration for up to 5 days (see graph).

Mix and apply according to the instructions for the specific low volume applicator, eg for applicator at 1.28oz/ton, dilute 400T bottle in 4 gallons.



Product guarantee: Ecosyl is guaranteed to apply a minimum of 100,000 live *Lactobacillus plantarum* strain MTD/1 bacteria per gram of forage when stored and used in accordance with the manufacturer's instructions.

REMEMBER: Ecosyl cannot be expected to overcome poor silage making practices, highly adverse weather conditions and unsatisfactory feedout procedures.