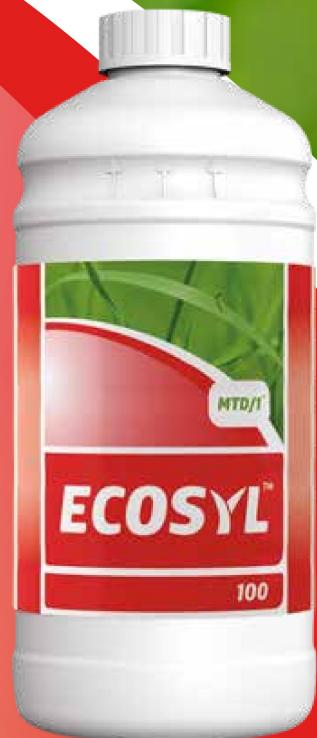




**Why use
a silage
additive?**



ECOSYL™

For consistently better silage

Benefits of making good grass silage



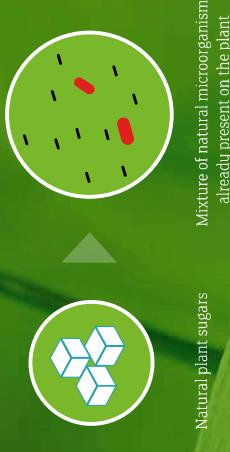
The importance of fermentation

Key to producing good grass silage is a good fermentation. Fermentation is simply a form of pickling. In a good fermentation, desirable bacteria produce only lactic acid, which is highly efficient at preserving ('pickling') silage against losses in dry matter and quality.

Efficient fermentation with Ecosyl® (homofermentation)



Untreated fermentation (heterofermentation)



If a poor fermentation occurs due to bad bacteria, weaker acids which are less effective at preservation are produced, as well as other compounds, some of which reduce silage palatability.

- ✓ Highly cost-effective feed
- ✓ Allows more of the animal's feed requirements to come from the farm
- ✓ Provides a foundation for more milk (or meat) from forage
- ✓ Makes efficient use of farm assets (land and slurry)
- ✓ Better silage makes better use of investment in fertiliser
- ✓ Highly sustainable and traceable
- ✓ Less wastage (versus poor silage)

Take control of the fermentation

While other steps in silage-making are relatively controllable, such as chop length, compaction and sheeting, you have no control over the bacteria present on the crop - good ones or bad ones - which will drive the fermentation.

This means the preservation of this valuable feed – and therefore its quantity and quality – is left much more open to chance.

Taking a few moments to understand fermentation, and how to take back control of it using 'friendly bacteria', can pay dividends.

Poor Fermentation (low ratio of Lactic acid)
Slower pH fall
More protein breakdown
Higher DM losses
Less palatable silage

Good Fermentation (High ratio of Lactic acid)
Faster pH fall
Less protein breakdown
Lower DM losses
More palatable silage

“There is a huge amount of scientific proof showing the logical sequence of benefits from using Ecosyl - from application right through to improved animal performance.”

Dr Mark Leggett, Volac silage scientist

Better silage in 6 simple steps:



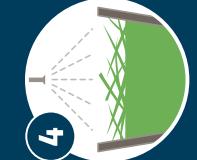
Cutting

Timing is key. Aim for optimum balance of yield and quality



Witling

A rapid wilt will maximise silage quality and minimise DM losses



Treating

Applying a proven silage additive such as Ecosyl is quick and easy to do and will pay dividends later in improved silage quality and reduced DM losses



Clamping

Good consolidation and effective sealing to minimise exposure to air are key

Cut to Clamp

A Volac initiative

Feeding

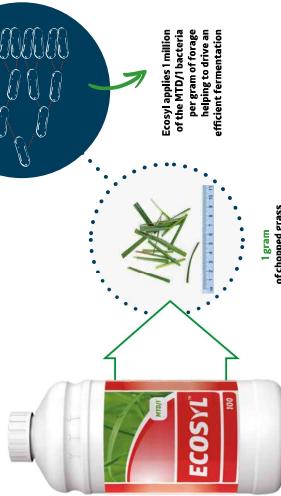
Good clamp management is vital to reduce aerobic spoilage and DM losses

For more details: www.cuttoclamp.com

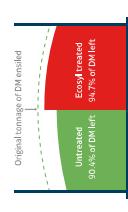
Preserve your silage with Ecosyl - the proof

1 **Ecosyl contains the MTD1/bacteria**
for greater control over how well your silage turns out

- 2** Efficient fermentation with Ecosyl results in rapid production of lactic acid to quickly inhibit undesirable bacteria



- 3** With undesirable bacteria inhibited, this reduces the amount of dry matter (DM) and nutrients they can consume



In trials on grasssilage at different %DMs, Ecosyl-treated baled DM losses (average of 90.7% of the original DM ensiled) remained on 90.8% in the untreated. So the DM that remains in untreated silage is longer in feed value.

By reducing bad bacteria, and therefore the nutrient they consume, Ecosyl has been shown to deliver slurry higher in metabolisable energy and higher in true protein.

- 4** Improved animal performance



Calculated overall ME benefit from using Ecosyl in a 1,000 tonne clamp treated at 30% DM

More tonnes of a more nutritious silage available to feed

Treatment	Dry matter (tonnes)	Energy (MJ/kg DM)	Total energy (MJ)	Carcass Gain (kg/d)	FeedGain
Untreated	271	10.6	2,872,600	3,200/200	-11.3 %
Treated	284	11.3	3,205,200	4,91%	-6.6 %

This is no idle claim...

Scientific research using DNA fingerprinting (a technique used in forensics) showed grass silage without an additive became dominated by undesirable enterobacteria (commonly found in silage) within days of ensiling (left) – compared with silage treated with Ecosyl treatment where enterobacteria numbers were up to 100,000 times lower (right).

*When applied correctly

Summary of benefits of Ecosyl treatment based on research

*Compared with no additive used

Improved fermentation*

Faster production of beneficial lactic acid in clamp (rapidly 'pickling' the forage against undesirable bacteria that otherwise 'feed' on it)

Improved silage quantity*

Dry matter loss halved in trials

Improved silage feed value*

Improved true protein preservation, improved digestibility, improved ME

More silage available to feed

Improved animal performance*

1.2 litres/cow/day extra milk yield and improved liveweight gain in beef

What about multi-cut?

While cutting grass younger and more often in a multi-cut system offers multiple benefits – including higher ME and protein content and potentially a higher overall DM yield over the season – the higher protein content of younger grass can contribute to buffering of the fermentation. Also, shorter intervals between cuts mean less time for slurry bacteria to decline. High buffering and the action of slurry bacteria can lead to DM and nutrient losses.

In research without an additive, multi-cut suffered twice the DM loss as when ensiled with Ecosyl, which reduced DM losses on all four cuts. Results also indicated better protein preservation with Ecosyl and reduced number of enterobacteria.

Features

- Ecosyl 100 is available for a liquid or dry application
- One bottle/bag treats 100t of forage
- Versatile liquid application:
 - Any applicator – standard to ULV
 - Apply from 20 ml/t to 2 l/t
- Tank mix life: 48 hours. The ULV tank mix can also be stored for up to 10 days in a fridge
- Dry application at 200 g/t
- Shelf life (unopened): 24 months in a cool, dry place.
- Easy mixing and versatile use
- GMO free and suitable for organic use

MTD/1™



Choose a proven additive from a trusted company.

Email | info@ecosyl.com Visit | www.ecosyl.com

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