

**ECOSYL™**

**100**

*Silage additive  
for clamped grass  
and legumes*

**MTD/1™**

**volac** 

Ecosyl 100 contains a special strain of bacteria, MTD/1, which is only found in the Ecosyl 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 inoculant. 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 whole 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.



## **The world's most proven inoculant**

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

Our research team focused its efforts on improving product formulation with the aim of making Ecosyl more versatile for the user whilst maintaining all the performance benefits. Several key innovative breakthroughs resulted in the development of Ecosyl 100.

- For liquid or dry application in big 100t packs – less mixing and packaging
- Versatile liquid application – standard or ULV
- Low rate dry application – excellent coverage with fewer stops
- Can be applied with any applicator on any harvester – more versatile
- Two year shelf life in a cool dry place – the ultimate in quality



**Hywel Roberts, Tyn Y Celyn, Gwyddelwern, near Corwen in Denbighshire**

'Preserving with an effective fermentation in the clamp is a must, so an Ecosyl bacterial additive has been an integral part of the farm's silage-making for the past five years.'



**John Owen, Gelli Aur College Farm, Carmarthenshire**

'And an additive is important to help with the fermentation process and to best conserve the nutrients. We have used Ecosyl for a number of years now and it certainly does the job for us.'



**Prof. Limin Kung, University of Delaware**

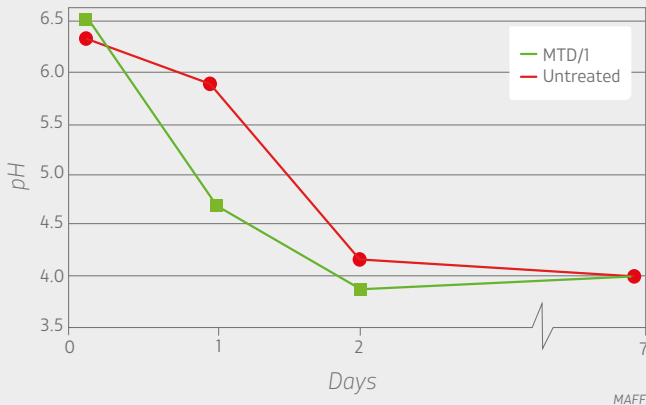
'A summary of 14 lactation studies using MTD/1 conducted in university and government research institutes in the UK, Europe and North America have shown milk production was significantly increased by 4.6%.'



**Dr. Tim Keady, Teagasc, Ireland**

'Each one unit increase in silage digestibility increases silage intake of beef and dairy cattle by 1.5%, increases milk yield of lactating dairy cows by 0.37 litres/cow/day and increases carcass gain of finishing beef cattle by 28g/day.'

*Note: In more than 20 studies MTD/1 has been shown to increase silage 'D' values by an average of 3 units.*

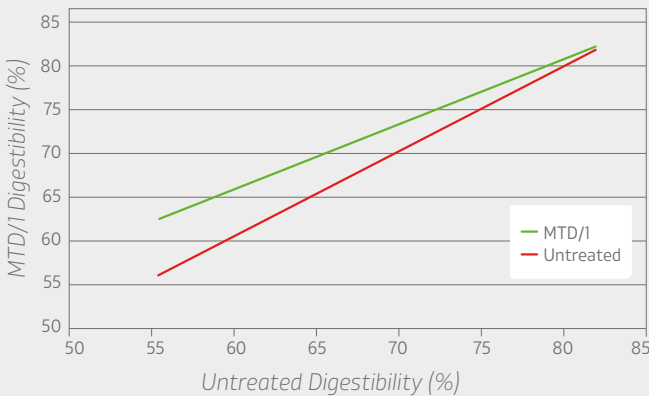


### MTD/1 dominates the fermentation

200+ fermentation trials

Independent trial 24 hours after ensiling:

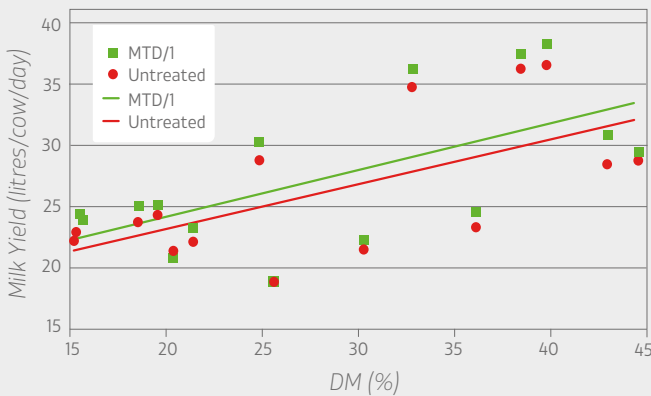
- There were over 25 times more lactic acid bacteria in the MTD/1 treated silage
- 100% of these bacteria were MTD/1 - complete domination
- This resulted in a much more rapid pH fall in this critical period - see graph



### 3 'D' extra digestibility

26 feeding trials

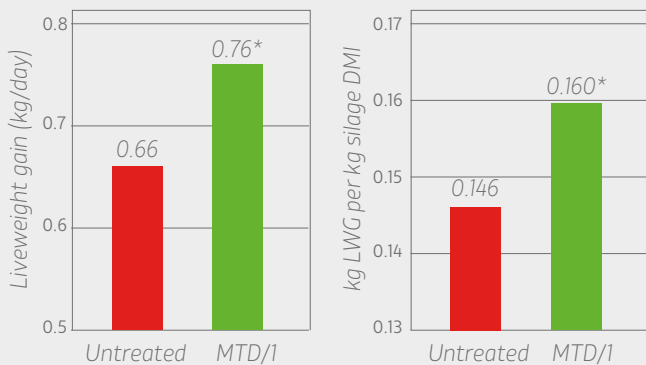
- MTD/1 gave an average 3 'D' more
- MTD/1 has an increasing effect as crop maturity rises
- Using Ecosyl, crops can either be harvested at the usual time with a higher digestibility or cut later to give a higher yield at the usual digestibility
- Improved digestibility increases feed conversion efficiency



### 1.2 litres more milk

15 independent dairy trials

- MTD/1 consistently produces more milk
- An average increase of 1.2 litres/cow/day
- At 30ppl that is worth about £70/cow extra
- It pays to treat high DM silages too



\* statistically significant difference

### Higher beef gains

19 Independent beef trials

- MTD/1 consistently produces more beef
- Liveweight gain in growing cattle (10 trials) increased by more than 11% - see left for grass silage results (15.2%)
- Carcass gain in fattening cattle (9 trials) increased by more than 9%
- Similar results have been obtained with maize and lucerne

## Mixing and application

- One pack treats 100t
- Variable liquid application  
– from 20 ml (ULV) to 2 l/t
- 48 hour tank mix life  
(ULV up to 12 days if refrigerated)
- Dry application 200 g/t
- 24 month shelf life in a cool, dry place
- GMO free, suitable for organic use



MTD/1 is a natural bacterial strain first isolated in the UK by British scientists. It is manufactured and packaged in the UK.



Fermentation - 1b, 1c  
Intake - 4a  
Digestibility - 4b  
Animal performance - 4c (dairy & beef)

Product guarantee: Volac International Limited guarantees that Ecosyl 100 will apply at least 1 million live *Lactobacillus plantarum* strain MTD/1 (NCIMB 40027) per gram of forage treated when stored and used in accordance with the instructions or this product will be replaced free of charge. This guarantee applies to product purchased through an authorised distributor and used before the expiry date. Counting methods must be those agreed between Volac and the National Collections of Industrial and Marine Bacteria (NCIMB). The liability of Volac under this guarantee shall not extend beyond the provision of replacement product. Your statutory rights are not affected by the guarantee. The use of silage additives cannot be expected to overcome poor silage making practices, highly adverse weather conditions and unsatisfactory feeding-out procedures.

### For further information:

Freephone | 0800 590440 Email | [info@ecosyl.com](mailto:info@ecosyl.com) Visit | [www.ecosyl.com](http://www.ecosyl.com)

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