ECOSYL™ 100

Silage additive for clamped grass and legumes

MTD/1™

volac

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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

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Prof. Roger Wilkins
Former Director of IGER, North Wyke

'In the European LEGSIL study on ensiling legumes an inoculant containing MTD/1 showed better fermentation results overall than formic acid with legumes wilted above 30% DM.'

Dr. Mike Wilkinson
University of Nottingham

'To be effective an inoculant must dominate the natural population of lactic acid bacteria. Under European conditions it is generally believed that inoculants should apply at least one million bacteria per gram of forage'

Prof. Limin Kung, University of Delaware

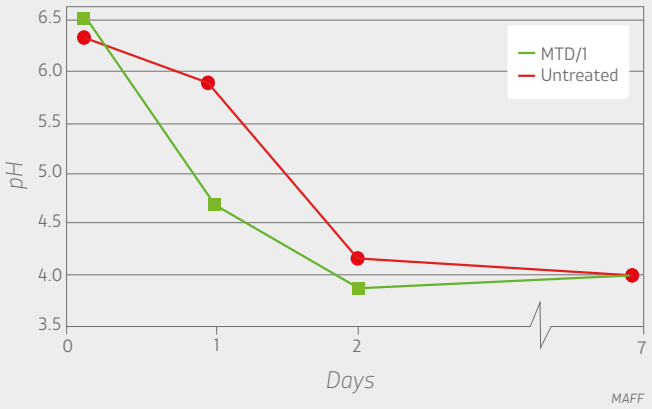
'A summary of 14 lactation studies using MTD/1 conducted in university and government research institutes in the UK, Europe and North America have shown milk production was significantly increased by 4.6%.'

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.*

ECOSYL™ 100

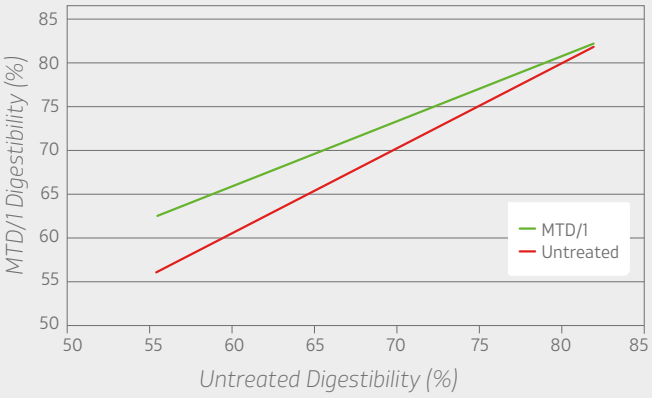


MTD/1 dominates the fermentation

200+ fermentation trials

Independent trial 24 hours after ensiling:

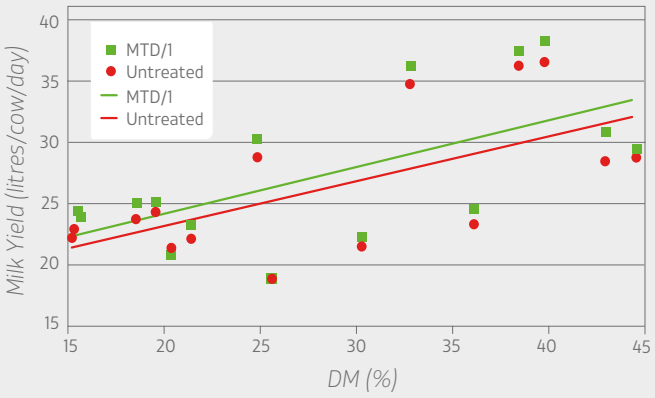
- There were over 25 times more lactic acid bacteria in the MTD/1 treated silage
- 100% of these bacteria were MTD/1 - complete domination
- This resulted in a much more rapid pH fall in this critical period - see graph



3 'D' extra digestibility

26 feeding trials

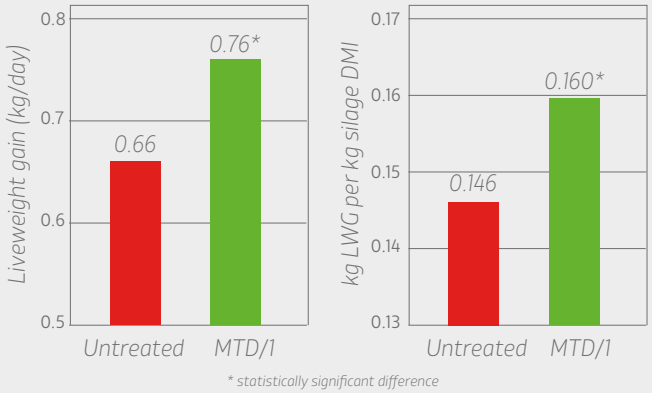
- MTD/1 gave an average 3 'D' more
- MTD/1 has an increasing effect as crop maturity rises
- Using Ecosyl, crops can either be harvested at the usual time with a higher digestibility or cut later to give a higher yield at the usual digestibility
- Improved digestibility increases feed conversion efficiency



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



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

ECOSYL™ 100

Mixing and application

- 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. Use opened bags within 3 days
- GMO free and 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.

Ecosyl silage additives are exported worldwide. In 2011 Ecosyl Products Ltd received the Queen's Award for Enterprise for innovation.

THE QUEEN'S AWARDS FOR ENTERPRISE 2011

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:

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