MAGNIVA CLASSIC

INCREASES DRY MATTER AND NUTRIENT RETENTION FOR MORE HIGH QUALITY FEED

DRIVE FERMENTATION	ENHANCE FEED DIGESTIBILITY	IMPROVE FEEDOUT STABILITY
+ + + + +	+ + + + +	+ + + + +

MAGNIVA Classic combines elite bacteria and enzymes to help drive a fast, efficient fermentation, driving lactic acid production for a stable, low final pH to control silage quality.

USED FOR

- Corn silage
- Alfalfa and legume silages
- Grass haylage
- Cereal silages
- High-moisture corn (HMC)

STRAINS	MAIN FEATURES	COLONY FORMING UNITS (CFU)
Pediococcus acidilactici NCIMB 12420	Provides fast, efficient fermentation to prevent bad fermentations due to clostrida, listeria, enterobacteria, etc.	90,000 CFU/g fresh forage
Lactiplantibacillus plantarum NCIMB 12422 (formerly *Lactobacillus plantarum* NCIMB 12422)	Works with *P. pentosaceus* 12455 to drive pH to final end-point.	10,000 CFU/g fresh forage

ENZYMES	MAIN FEATURES	ACTIVITY
ß-glucanase (EC 3.2.1.6)	Produce fermentable sugars to kick-start the ensiling fermentation by our elite LAB strains.	7,000 units per gram
α-amylase (EC 3.2.1.1)		3,500 units per gram
xylanase (EC 3.2.1.8)		3,050 units per gram
Galactomannanase (EC 3.2.1.78)		640 units per gram

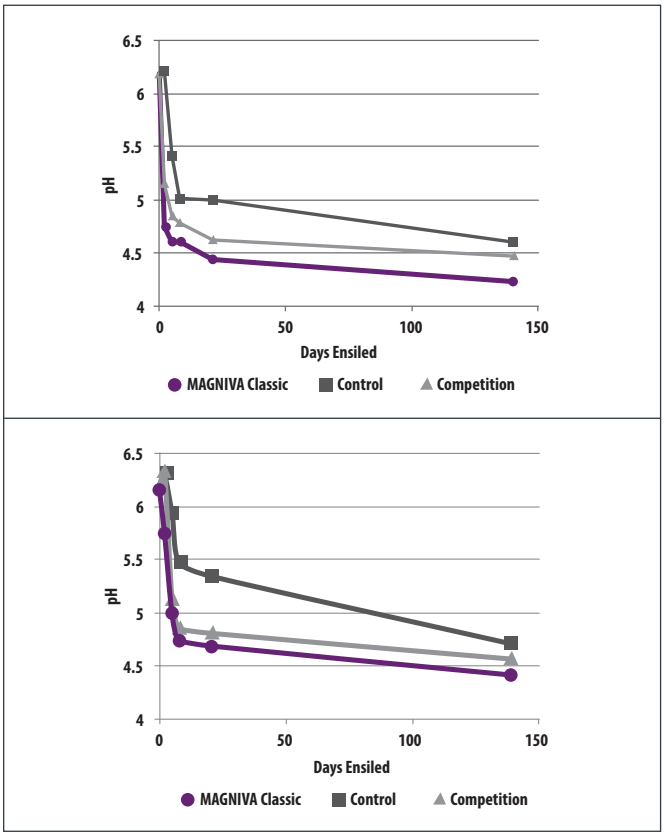
one unit = one mg sugar released/minute

PROVEN RESULTS

FASTER PH DROP

MAGNIVA Classic accelerates the pH drop, inhibiting undesirable microbes like clostridia and improving DM and nutrient recovery.[1]

Alfalfa Haylage: 36% DM (top); 43% DM (bottom)



Alfalfa Haylage (27% DM)[2]

+3%
DM recovery

+4%
Protein recovery

IMPROVES FEED EFFICIENCY IN STEERS

Yearling steers fed corn and barley silage treated with MAGNIVA Classic showed an increase in performance, increasing gain per ton.

Corn Silage Trial [3]

	Untreated	MAGNIVA Classic
Number of Steers	18	18
Average Daily Gain, kg/hd/d	1.1	1.2
Silage Fed/ton of Crop Ensiled, kg	803.8	811.0
Silage intake/lb of gain, kg	8.0	7.7
Cattle Gain/tonne of Crop Ensiled, kg	45.3	48.0

3.0 kg more gain per tonne of silage fed

Barley Silage Trial [4]

	Untreated	MAGNIVA Classic
Number of Steers	40	40
Average Daily Gain,kg/hd/d	0.9	1.0
Feed Intake, kg/hd/d	20	18.7
Feed Efficiency (DMI/ ADG)	20.7	18.2

6.65 kg more gain per tonne of feed

IMPROVES MILK PRODUCTION

Dairy cows fed grass haylage treated with MAGNIVA Classic saw significant improvement in milk production, +1.3 kg per cow compared to the control.[5]

Grass Haylage

+1.3 kg

Milk yield per cow

OUR GUARANTEE: WHAT IS ON THE LABEL IS INSIDE THE PACKAGE!

MAGNIVA Classic Available Sizes

200 g pouch of water-soluble concentrate treats 100 tons of fresh forage (approximately 2,959 bushels of HMC)
1 kg pouch of water-soluble concentrate treats 500 tons of fresh forage (approximately 14,793 bushels of HMC)

Contact your Lallemand Animal Nutrition sales representative.

Always follow label directions: The use of any forage additive cannot be expected to overcome poor management. Proper storage and handling is important to forage inoculant performance. Products should be refrigerated, and the whole package should be used at one time. Visit www.QualitySilage.com for the latest information on silage management practices.

REFERENCES: TRIAL SUMMARIES AVAILABLE UPON REQUEST

1 L. Kung, University of Delaware, unpublished data (BTUSE055) 2 Lakeside Research, Brooks, Alberta, Canada, Alfalfa Silage Trial 1987 (BTUSE045) 3 Bolsen, K.K. et. al. "Evaluation of Inoculant Treated Corn Silages" (1992) Cattleman's Day 104-107, Kansas State University (BTUSE041
4 Thorlakson Feed Yards. Animal Research International. Airdire, Alberta, Canada 1988 (BTUSE044) 5 Unpublished data, Biotal field trial

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