

# MAGNIVA<sup>®</sup> for HAY

## FOR HIGH MOISTURE BALED HAY \*

(\*HAY BALED AT UP TO 5% HIGHER THAN NORMAL BALING LEVEL)

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

**MAGNIVA<sup>®</sup> for Hay** is safe for you and your stock. It contains a natural, scientifically selected elite lactic acid bacterium formulated with enzymes that work together to colonize dry hay, enhance the feed quality and help prevent the growth of yeast and molds, minimizing spoilage losses due to variations in field conditions (soil moisture, ambient humidity, windrow size, etc.).

### USED FOR

- Baled hay: small or big squares, big rounds
- Alfalfa
- Native grasses
- Sudan
- Wheat
- Coastal Bermuda
- Orchard grass

STRAINS	MAIN FEATURES	COLONY FORMING UNITS (CFU)
<i>Pediococcus pentosaceus</i> NCIMB 12675	Selected for ability to grow rapidly at low moisture levels across a wide range of temperatures and pH levels. Colonizes the hay to reduce the growth of spoilage yeast and molds	1,000,000 CFU/g fresh forage

ENZYMES		ACTIVITY
α-amylase (EC 3.2.1.1)	Works in concert with the <i>P. pentosaceus</i> NCIMB 12675 to help improve digestibility and reduce the growth of yeasts and molds.	250,000 units per gram

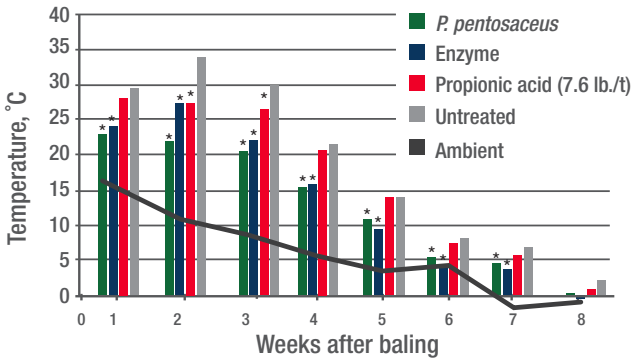
one unit = one mg sugar released/minute

# PROVEN RESULTS

## REDUCES HEATING: WEEKLY MEAN TEMPERATURES<sup>1</sup>

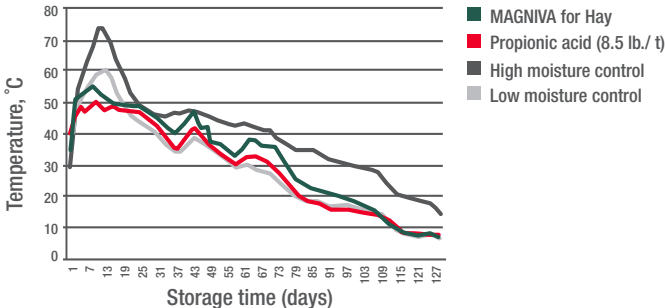
The active ingredients in MAGNIVA for Hay significantly reduced heating compared to the untreated control in big square bales (1800 lb.) of a 18% moisture 90:10 alfalfa /brome grass mix. MAGNIVA for HAY was at least as effective as propionic acid treatment. Color and odor assessment scores were: *P. pentosaceus* 27.0; Enzyme 26.0; Prop. acid 15.6; Control 15.2 (40 = fresh mown, top quality hay).

\* - significantly different to untreated (P<0.01).



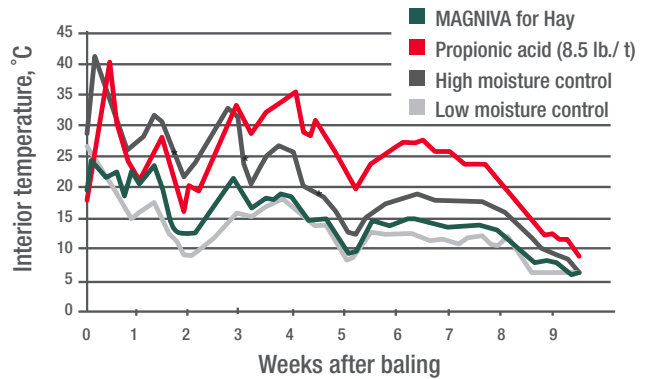
## REDUCES HEATING: IN-SITU CORE TEMPERATURES<sup>3</sup>

In trials on 30% moisture alfalfa hay medium square bales (1,100 lb.) MAGNIVA for Hay significantly reduced heating compared to the untreated control. The temperature profiles in the MAGNIVA for Hay treated bales were comparable to the hay treated with propionic acid and the low moisture control (20% moisture).



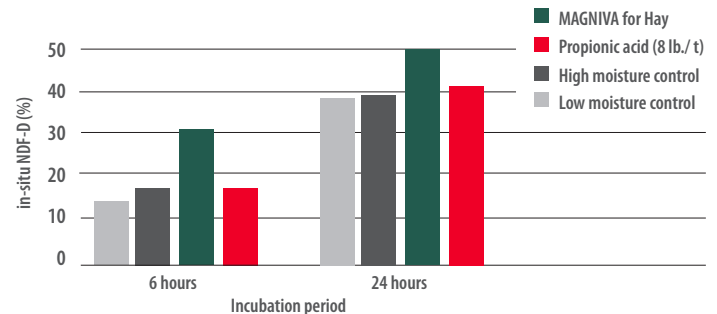
## REDUCES HEATING: IN-SITU CORE TEMPERATURES<sup>2</sup>

MAGNIVA for Hay significantly reduced heating compared to the untreated control and propionic acid treat hay in 25-30% moisture alfalfa big round bales (1,500 lb.), hay. Temperature profiles in the MAGNIVA for Hay treated bales were comparable to the low moisture control (11% moisture). The average daily temperature during the storage period for the Biotal Hay Inoculant treated hay was significantly (P<0.05) lower than the propionic acid treated material, at 59.4°F and 77.7°F, respectively.



## INCREASES IN-SITU NDFD: ALFALFA HAY<sup>2</sup>

In trials on 21.4 - 26.6% moisture alfalfa hay big round (1,200 lb.) bales MAGNIVA for Hay had significantly (P<0.001) increased in-situ 6h and 24h NDF digestibility compared to the high moisture control hay, the propionic acid treated and the low moisture (15.8%) control.



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

### MAGNIVA for HAY Available Size

100 g pouch of water-dispersible concentrate treats 10 tons of fresh hay.

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](http://www.QualitySilage.com) for the latest information on silage management practices.

### REFERENCES: TRIAL SUMMARIES AVAILABLE UPON REQUEST

<sup>1</sup>Baah, J. et al., AAFC- AAC Lethbridge, unpublished data. <sup>2</sup>Lin, J. et al. Grass Forage Sci. 2018; 1-12. <sup>3</sup> Professor Andrea Formigoni, University of Bologna, Italy, unpublished data

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