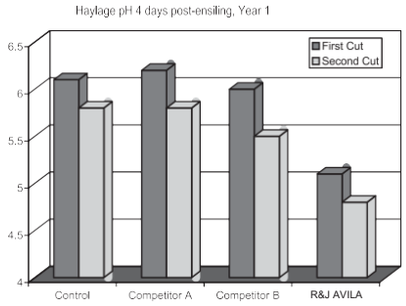
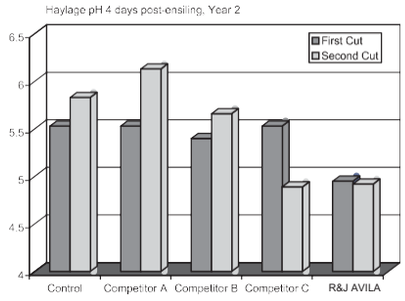
The R&J Avila's ENSILE - FT Inoculant Advantage

For a proper fermentation to occur, forage pH needs to drop below 5.0 as quickly as possible. In a product comparison study at the University of Guelph, the LAB in R&J Avila's **ENSILE - FT** Inoculant out-performed competitor silage inoculants. Products were tested on two cuttings of alfalfa haylages during the two year study.

R&J Avila's **ENSILE - FT** effectively lowered the pH of ensiled forage to less than 5.0 within four days, while competitor inoculants required over seven days.





ENSILE - FT

Water Dispersible Inoculant

A stabilized Concentrate of Lactic Acid Bacteria for Silage Inoculation

GUARANTEED MICROBIAL ANALYSIS

Lactic Acid Bacteria **(3 Strains)***
Not less than...210 Billion CFU**/g

* Lactobacillus Plantarum
* Pediococcus Acidilactci
* Enterococcus Faecium

INGREDIENTS

Lactobacillus Plantarum fermentation product dehydrated, P*ediococcus Acidilactci* fermentation product dehydrated, *Enterococcus Faecium* fermentation product dehydrated, Dextrose, Sodium Aluminosilicate (2.0 wt. %), Sodium Dioxide (2.0 wt. %), FD&C Blue No. 1, FD&C Yellow No. 5

*Recommended for All Silages
*500 Gram Pouch treats **500 Tons** of Silage or 100 Gram Pouch treats **100 Tons** of Silage
*Treats at **225,000 CFU****/g of Forage
(Industry Minimum is 100,000 CFU**/g)

**CFU: Colony Forming Units

FOR MORE INFORMATION CONTACT YOUR AREA REPRESENTATIVE:

John Avila (209) 678-1723

Rui Avila (209) 678-3086

ENSILE - FT

Silage Inoculant

R&J Avila INCORPORATED

8119 ELLINGTON AVENUE
HILMAR, CA 95324

Why use an inoculant?

The ensiling process begins when naturally occurring bacteria on the crop grow by utilizing moisture and sugars from the harvested forage. When they grow, organic acids such as acetic, butyric, lactic and propionic, are produced and heat is generated.

The most desirable group of bacteria for ensiling is lactic acid bacteria because they grow quickly and produce large amounts of lactic acid. Unfortunately, nature does not always provide an adequate supply of lactic acid bacteria in silage. When this occurs, spoilage microorganisms can take control, causing the following:

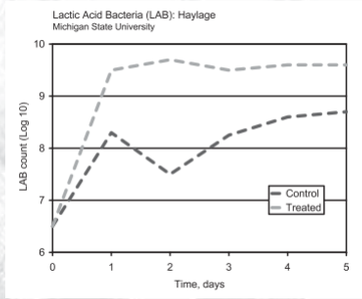
-Nutrient losses through gas production
-Heating
-Protein Degradation

Microbial Silage Inoculants, like R&J Avila's **ENSILE - FT** Inoculant, assist the ensiling process naturally. R&J Avila's **ENSILE - FT** Inoculant supplements the naturally occurring lactic acid bacteria, ensuring that the fermentation is dominated by beneficial bacteria. The inoculant adds an extra measure of assurance that the ensiling process will occur as rapidly as possible.

R&J Avila's ENSILE - FT Inoculant Aids Ensiling

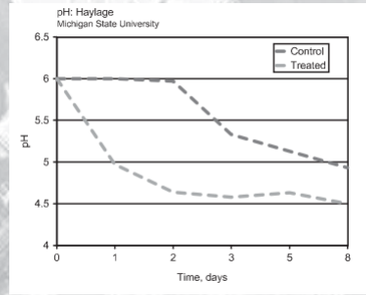
More Lactic Acid Bacteria

Treated silage contained a higher number of LAB in a Michigan State University research trial, meaning more lactic acid and faster fermentation.



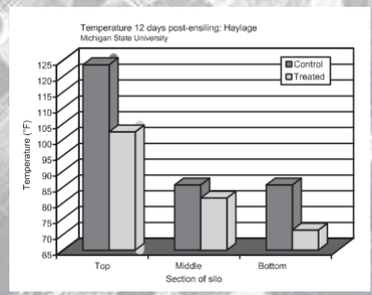
Faster pH drop and lower final pH

In the MSU trial, the pH of the treated silage was significantly lower for the duration of the fermentation.



Lower Temperature

The MSU trial also showed that less heating improved DM recovery of treated silage. Treated silage remained cooler throughout the silo at all stages of fermentation.



Research Proven

University of Guelph

Dr. J Buchanan-Smith conducted research on alfalfa haylage that showed increased dry matter (DM) recovery and enhanced animal performance. “Solid-corrected milk (SCM) values were almost 2.5 lb higher for cows fed the treated silage,” said Dr. Buchanan-Smith.

	Control	Treated
pH	4.6	4.4
DM, %	37.9	40.5
DM recovered, %	84.6	90.4
Energy, recovered, %	83.8	93.9

Kansas State University

Dr. Keith Bolsen conducted research on corn silage that resulted in improved feed efficiency.

	Control	Treated
pH	3.8	3.8
DM, %	36.8	37.4
DM recovered, %	91.8	92.7

Another KSU trial showed that the silage inoculant improved corn silage fermentation, resulting in better steer performance.

	Control	Treated
DM recovered, %	91.8	92.7
Feed efficiency	7.6	7.1
Silage fed/ton ensiled, lb	1,849	1,864
Gain/ton of silage, lb	97.8	105.7

R&J Avila's ENSILE - FT Silage Inoculant quickly returns your investment:

-Faster, more controlled fermentation
-Reduced nutrient losses
-Better animal performance