

Ensure® And Enhance® Silage Inoculants

MORE RAPID AND EFFECTIVE FERMENTATION
FEWER LOSSES, MORE NUTRIENTS, IMPROVED ANIMAL PERFORMANCE

PRODUCT	DESCRIPTION	MICROBIAL INGREDIENTS	PACKAGE	VOLUME OF SILAGE TREATED
ENSURE (Water soluble)	haylage*	<i>Lactobacillus plantarum</i> (LP-1) <i>Pediococcus cerevisiae</i> (PC-3)	100 gm bottle	50 tonnes of haylage
ENSURE (Water soluble)	haylage*	<i>Lactobacillus plantarum</i> (LP-1) <i>Pediococcus cerevisiae</i> (PC-3)	500 g bottle	250 tonnes of haylage
ENHANCE (Water soluble)	corn silage	<i>Lactobacillus plantarum</i> (K270, PA28)	50 gm bottle	50 tonnes corn silage
ENHANCE (Water soluble)	corn silage	<i>Lactobacillus plantarum</i> (K270, PA28)	500 g bottle	500 tonnes corn silage

* haylage: alfalfa, other legume, grasses, or mix, or cereal

DAIRY ADVANTAGE
RESEARCH SHOWS A SIGNIFICANT RETURN
ON INVESTMENT WITH SILAGE INOCULANTS
IN DAIRY PRODUCTION

With today's expensive feed cost, using inoculant on your silage adds to your bottom line. Using the attached University of Guelph Inoculant study - the value of using inoculant is clearly demonstrated.

Inoculant in this study provided \$8.06/ton return after factoring all other costs. This is a return of \$5.00 for each \$1.00 invested in inoculant.

For a 75 cow herd this would translate into a savings of \$6,045.00 return (75 x 10 ton / cow of silage per year (a cow will consume approx. 10 ton of silage per year) x \$8.06 / ton = \$6,045.00 return) to the farm; from reduced dry matter loss and increased forage dry matter intake.

UNIVERSITY OF GUELPH INOCULANT STUDY - DEMONSTRATES THE VALUE OF USING INOCULANT			
	Untreated	Inoculant	Advantage
Moisture (%) / Dry Matter (%)	62.1% / 37.9%	59.5% / 40.5%	
Dry Matter Loss (%)	15.4%	9.6%	+ 5.8%
Forage Dry Matter Intake (lbs)	27.1 lbs	31.0 lbs	+ 3.85 lbs
4% Milk / Cow /Day	34.25 lbs	36.75 lbs	+ 2.50 lbs
Pounds of Milk / Ton of Forage Ensiled	809 lbs	868 lbs	+ 59 lbs
Grain As Fed/ Cow / Day (lbs)	12.4	13.2	
Milk Income / Ton of Forage Ensiled (TFE)924.45/ kg of milk	\$165.12	\$177.14	
Grain Cost/ TFE @ (\$250/ton)	-\$36.61	-\$38.97	
Silage Cost / TFE (@ \$40/ton)	-\$40.00	-\$40.00	
Inoculant Cost / TFE (@ \$1.60/ton)	\$0.00	-\$1.60	
Net Return per Ton of Forage Ensiled	\$88.51	\$96.57	\$8.06/ton

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BEEF ADVANTAGE

Research at Kansas State University showed that using microbial inoculant improved corn silage fermentation which resulted in better steer performance. Dry matter recovery of inoculated silage was greater than untreated silage.

Steers gained 3.6 kg (79 lb) more weight per ton of inoculated silage consumed than steers consuming untreated silage.

The goal of silage production is to maximize the amount of nutrients preserved in your forage crop. The use of a silage inoculant can ensure that the value of your crop is maximized.

PICKSEED offers an excellent choice of top quality inoculants for protecting your corn silage or haylage investment.

YOU WILL SEE IMPROVEMENTS IN:

Dry matter recovery - using inoculants can save you upwards of 7 per cent dry matter (see below), but the losses represent protein, sugars and starches, not just haylage or corn silage. These losses are the portion that is easiest to digest. Dry matter losses will need to be replaced with more expensive feed purchases such as soybean meal and grain corn.

DRY MATTER LOSSES (as %) TRIAL RESULTS

UNIVERSITY	CROP	UNTREATED	TREATED	DIFFERENCE
Guelph %	Alfalfa	15.4 % loss	9.6 % loss	5.8%
Cornell (NY) %	Corn	8.7 % loss	2.1% loss	6.6%
Fresno State U, California %	Corn	24.4% loss	18.9% loss	5.5%

EXPLANATION:

At Guelph, alfalfa silage untreated lost 15.4% dry matter during fermentation while the alfalfa silage treated with ENSURE lost only 9.6% dry matter. The treated silage effectively yielded $15.4 - 9.6 = 5.8$ tonnes more silage per 100 tonnes.