

# Opti-Sile

## GUARANTEED ANALYSIS:

**Water soluble** -  $1.8 \times 10^{10}$  cfu/g lactic acid bacteria, 5000 units enzyme activity including amylases, cellulases and hemicellulases.

**Granular** -  $2.0 \times 10^7$  cfu/g lactic acid bacteria, 55 units enzyme activity including amylases, cellulases and hemi-cellulases.

## INGREDIENTS:

**Water soluble** - Dried *Pediococcus acidilactici*, *Pediococcus pentosaceus*, *Lactobacillus plantarum* and *Propionibacterium shermanii* fermentation products; dried *Aspergillus niger* and *Aspergillus oryzae* fermentation extracts, dextrose, manganese sulfate.

**Granular** - As above with calcium carbonate carrier.

## DIRECTIONS FOR USE:

For each type of crop treated, follow the established and accepted silage practices for proper crop maturity, length of chop, ensiling moisture content and silo compaction.

Apply Opti-Sile at the forage chopper or at the silage blower using the appropriate application equipment.

Ensiled Crop	Maturity	Application Rate / Ton	
		Granular	Water Soluble
Alfalfa	Bud stage to 1 / 10 bloom	1 lb	2 qt
Corn (Whole plant)	Dent stage	1 lb	2 qt
Grasses	Early boot stage	1 lb	2 qt
Cereals (Whole plant)	Early boot stage	1 lb	2 qt
High Moisture Grain and Ground Ear Corn	26-32% moisture 28-34% moisture	1 lb	2 qt

(Grains should be processed to ensure maximum fermentation)

*For More Information Contact your IBA Dealer / Technician*



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# Opti-Sile

## SILAGE INOCULANT



# Opti-Sile

A Bacterial and Enzyme Inoculant  
for all Silages and High Moisture Grains

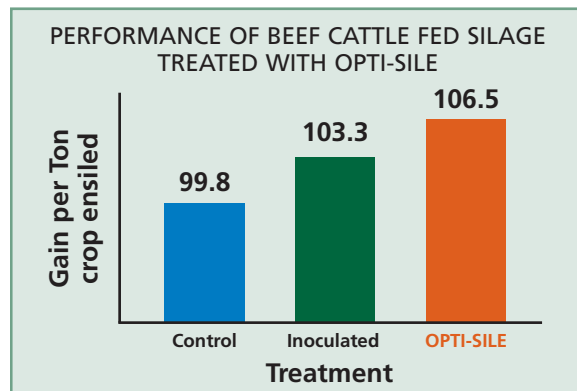
## Silage Fermentation: The Price You Pay

The faster silage pH is lowered the less heating will take place minimizing:

- Dry matter and energy losses
- Protein solubilization
- Heat bound protein

## Reduce these losses with Opti-Sile

University research has demonstrated that cattle fed Opti-Sile treated silage produced 6.7 pounds more lean beef per ton of crop ensiled than animals fed untreated silages. Furthermore, cattle fed Opti-Sile treated silage produced 3.2 pounds more milk when compared to other inoculants.



**NOTE:** Industry standards indicate that one pound of lean beef gain is equivalent to seven pounds of 3.5% milk.

Opti-Sile is available in water soluble or dry granular form both containing the following active ingredients:

### Multiple Strains of Lactic Acid Bacteria

Opti-Sile adds 100,000 cfu/g of forage of silage specific strains of the species *Pediococcus acidilactici*, *Pediococcus pentosaceus* and *Lactobacillus plantarum*. These strains are formulated to ensure maximum bacterial growth and acid production over a wide range of pH and temperature ranges.

### Propionic Acid Bacteria

By incorporating bacteria that produce small amounts of propionic acid, yeast and mold growth is reduced, which helps improve aerobic stability and bunklife.

### Hydrolytic Enzymes

Designed to break down complex carbohydrates into simple sugars which provide food for the lactic acid bacteria.

### Bacterial Stimulants

Essential minerals, cofactors and carriers have been included to maximize the stability, viability and growth of both enzymes and bacterial components of Opti-Sile. The granular formula assures good flow with no dust. The water soluble mix disperses rapidly with no lumps to plug nozzles.

## THE FOUR WAY FEATURES OF Opti-Sile

