

## DUAL PROTECTION AGAINST CLOSTRIDIA GROWTH AND REHEATING

**BONSILAGE ALFA WS rapidly lowers the pH level and provides protection against reheating in alfalfa haylages. In addition, it effectively inhibits clostridia, and reduces the risk of butyric acid fermentation and protein degradation. It also produces propylene glycol, which has been shown to benefit cow health, especially in early lactation.**

### BONSILAGE ALFA WS

- » **Type:** Biological and water soluble silage additive
- » **Dosage:** At least 300,000 CFU/g fresh matter (FM) of forage
- » **Dry Matter Range of Crops:**  
Alfalfa haylage: 30-45% DM
- » **Strains:** Selected strains of homo- and heterofermentative lactic acid bacteria
- » **Ingredients:** *Lactobacillus buchneri*, *Lactobacillus plantarum*, *Lactococcus lactis*, dextrose
- » **Active Substance:** Lactic acid bacteria not less than  $1.36 \times 10^{11}$  CFU/g product

### CHARACTERISTICS

- » *Lb. plantarum* quickly lowers the pH level by quickly producing lactic acid in the front-end fermentation cycle
- » *Lb. buchneri* produces acetic acid that inhibits yeasts and molds, which reduces the risk of reheating and the shrinkage that often occur during feed out
- » *Lc. lactis* is known for its active clostridia inhibition to reduce the risk of butyric acid fermentation, thereby improving protein quality
- » As a result, BONSILAGE ALFA WS facilitates improved fiber digestibility and helps retain dry matter and nutrients in forage

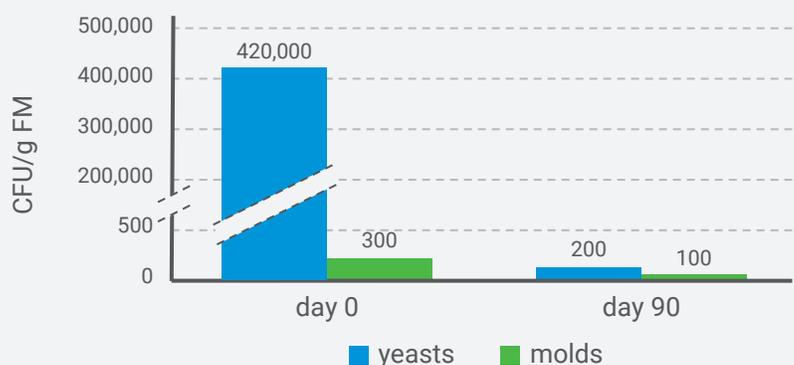
**BONSILAGE ALFA WS contains powerful bacteria that provide enhanced protection against reheating.**

### RESEARCH

PROVITA SUPPLEMENTS conduct extensive on-farm research and feeding trials to ensure the highest level of performance from BONSILAGE products.

Research trials show that BONSILAGE ALFA WS dramatically inhibits active clostridia when compared to untreated alfalfa haylage. It also suppresses the number of yeasts and molds counts after 90 days ensiling, which protects haylage quality.

Number of yeast and mold in BONSILAGE ALFA WS treated alfalfa haylage after 90 days silo ripening time



## BONSILAGE ALFA WS



## DIRECTIONS FOR USE

1. Fill remainder of bottle with cool, clean, non-chlorinated water and shake it well until the product is fully dissolved.
2. Pour solution into applicator.
3. Add water to achieve final concentration. Refer to mixing chart for correct volumes.

## APPLICATION

- » Apply 2 g of BONSILAGE ALFA WS equally to 1 ton of fresh matter (FM) forage, based on individual application rate and type of available applicator
- » Avoid heating the solution during application (max. 90°F) to preserve the LAB, and allow them the best possible performance
- » Small can (200 g) will sufficiently treat 100 tons FM forage, large can (1 kg) will sufficiently treat 500 tons FM forage
- » Do NOT add acids, salts or other substances, as they could reduce the number of viable bacteria in the product

## STORAGE OF PRODUCT

- » Store unopened bottles in a cool, dry place away from direct sunlight
- » Use the entire bottle when opened
- » The prepared solution can be stored for up to 24 hours if kept below 70°F

BONSILAGE ALFA WS contains noble LAB strains that are preserved by the latest freeze-dried conservation technology. This allows all BONSILAGE products to be stored at room temperature, so freezer storage is NOT necessary. BONSILAGE ALFA WS comes in sealed plastic cans and has a 24-month shelf life from production date. Our sturdy packaging ensures high-quality protection against environmental influences and allows for convenient mixing with water.

### PLEASE NOTE:

BONSILAGE products are the most widely used silage inoculants in Europe. Our products contain living, specifically selected lactic acid bacteria (LAB) produced by Lactosan, which is a sister company to PROVITA SUPPLEMENTS and a leader in scientific selection and production of LAB for silage and probiotics in animal feed. Our access to such highly sought-after bacteria results in superior forage quality and feeding value.

BONSILAGE ALFA WS contains a balanced mix of highly active homofermentative lactic acid bacteria strains. With a well-managed ensiling process, accurate dosing and sufficient compaction of the forage, BONSILAGE ALFA WS can improve silage quality and reduce the risk of reheating. The target density for proper fermentation should be a minimum of 15 lbs DM/ft<sup>3</sup>. For complete fermentation, the silage should be stored a minimum of 6 weeks before start of feed out.