

Product Information

Crop Guard

Active Ingredients: *Lactobacillus plantarum*, *Pediococcus acidilactici*, *Streptococcus faecium*, *Bacillus subtilis*, *Bacillus pumilis*, *Lactobacillus casei*, *Propionibacterium freudenreichii*, *Aspergillus niger* (fermentation extract), *Bacillus subtilis* (fermentation extract), *Trichoderma viride* (fermentation extract).

Guaranteed Analysis:

200,000 cfu/gram of crop

Application:

Crop Guard WS 50 227g bag treats 50 tons
Crop Guard WS 250 227g bag treats 250 tons
Crop Guard DI 50 50lb bag treats 50 tons
Crop Guard DI 200 50lb bag treats 200 tons

Crop Guard Buchneri

Active Ingredients: *Lactobacillus buchneri*, *Lactobacillus plantarum*, *Pediococcus acidilactici*, *Streptococcus faecium*, *Bacillus subtilis*, *Bacillus pumilis*, *Lactobacillus casei*, *Propionibacterium freudenreichii*, *Aspergillus niger* (fermentation extract) and *Bacillus subtilis* (fermentation extract).

Guaranteed Analysis:

500,000 cfu/gram of crop for silage
1,000,000 cfu/gram of crop for HMC

Application:

Crop Guard Buchneri WS 50 - 227g bag:
Treats 50 tons silage
Treats 25 tons of HMC
Crop Guard Buchneri DI 50 - 50 lb bag:
Treats 50 tons of silage
Treats 25 tons of HMC

Application & Storage

WS Mixing Directions:

- ♦ Clean and calibrate applicator
- ♦ Install correct size nozzle at the proper location
- ♦ Calculate the number of packages to add per tank using the applicator flow rate and the unloading rate
- ♦ The applicator's flow rate can be adjusted by changing pressure or nozzle tips
- ♦ Dissolve the correct amount of inoculant slowly by adding product to cold water while mixing

Storage: Store in a cool, dry area. For maximum stability, store in a refrigerator or freezer.

For more information contact
your Homestead Nutrition
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Manufactured for:
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Homestead Nutrition, Inc.



Crop Guard Silage Inoculants

Superior Silage Preservation



Crop Guard

- ♦ 4 lactic acid producing strains
- ♦ 7 total bacterial strains:
 - * Initiate fermentation
 - * Complete fermentation
 - * Oxygen scavengers
 - * Enzyme producers
 - * Target yeast spoilage
- ♦ 3 enzymes to “kick start “ the fermentation by converting additional plant starches to sugars for beneficial bacteria to utilize

What makes Crop Guard Inoculants different?

- ♦ Applies high levels of beneficial bacteria
- ♦ Quality assurance includes unique DNA fingerprinting to guarantee consistent results

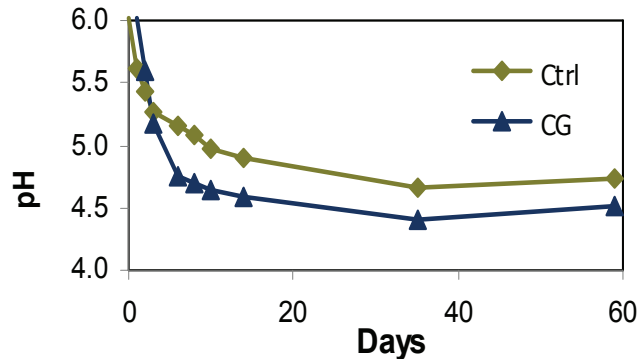
Crop Guard Buchneri

- ♦ Acetic acid producing strain to target yeast/mold spoilage organisms
- ♦ 4 lactic acid producing strains to help drop pH fast
- ♦ 2 enzymes to “kick start” the fermentation by converting additional plant starches to sugars for utilization by beneficial bacteria

Research Proven

Crop Guard

pH drop during first 60 days of fermentation
1st crop haylage



- * Crop Guard treated haylage had a faster pH drop and lower final pH during fermentation.
- * This fast pH drop confirms that an efficient fermentation has occurred!!
- * This creates an environment where spoilage organisms are not able to grow!

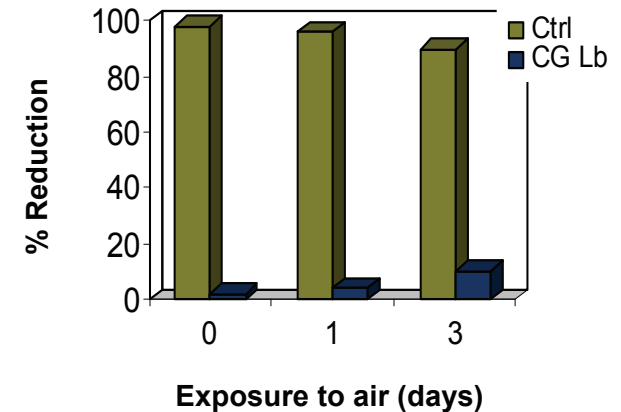
The Homestead Vision:

We strive to provide value built upon basic biological principles, tailored to meet specific customers needs.

Research Proven

Crop Guard *L. buchneri*

Yeast levels (% spoiled) upon exposure to air



- * Crop Guard treated Corn Silage had 98%, 96% and 90% less yeast spoilage on days 1, 2 and 4, respectively!
- * Less yeast spoilage results in a more stable crop with longer bunk life!
- * This means higher quality forages to your animals!

Special buffering agent...

Tired of dealing with clogged applicators?

This can be caused by the bacteria and carriers themselves. The bacteria grow and produce acid in the applicator tank, lowering the pH of the solution. If the pH of the solution gets too low, the bacteria and carriers can die and cause clogging from dead cell debris. Homestead Inoculants have a special buffering agent that helps maintain the pH above 6.0 in the applicator tank. This prevents applicator clogging and bacterial death.