

ACCEL ENSILE+

RESEARCH-SUPPORTED FEATURES AND BENEFITS

Accel Ensile+ 100W, 500W and 100D comprise a powerful forage inoculant line featuring three specialized strains of lactic acid-producing bacteria to enhance your forage quality from harvest to feed-out. Designed to promote optimal fermentation and preserve essential nutrients, Accel Ensile+ ensures your forage delivers maximum value. The advanced enzyme package accelerates the growth of beneficial bacteria, improving fiber and starch digestibility throughout the storage process and into the feed ration. It provides 150,000 CFUs of live bacteria per gram of forage. Accel Ensile+ is available in convenient water-soluble (100W and 500W) and dry granular (100D) forms—tailored for all forage types (Alfalfa, Grass, Small Grain, Sudan Silage, Corn Silage, Sorghum Silage) and different applicators.

BENEFITS

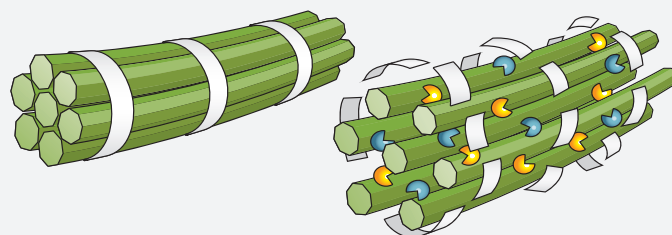
- Promotes rapid production of lactic acid for a fast, efficient fermentation, preserving energy
- Expedites pH decline of forage to stabilize the feed
- Improves forage quality by reducing protein degradation and ammonia levels during fermentation
- Reduces dry matter and nutrient loss, leading to increased animal performance
- Excellent mixing and resuspension characteristics

FEATURES

- Bacteria stabilizer to assure bacteria are healthy and viable at the time of application
- Contains multiple strains of bacteria proven to be effective throughout all stages of fermentation
- Contains an enzyme pack for improved fiber and starch digestibility
- Available in water-soluble and dry granular forms for ease and convenient application
- Stabilized bacteria to ensure viable inoculation at the time of application
- Formulated, blended and packaged in a certified facility to ensure viability and effectiveness
- Noncorrosive and nontoxic

ADVANCED ENZYME PACKAGE

The diagram (below) illustrates how Accel Ensile+ enzyme packages break up fiber bundles allowing rumen microbes more access to plant fiber increasing nutrient absorption.



Enzymes

Amylase (*Bacillus subtilis*): 4,540 BAU per ton of forage

Xylanase (*Trichoderma longibrachiatum*): 908 XU per ton of forage

Glucanase (*Trichoderma longibrachiatum*): 908 BGU per ton of forage

THREE STRAINS OF BACTERIA

PEDIOCOCCUS ACIDILACTICI

Grows rapidly at high pH making it ideal as a “starter” bacteria for immediate pH reduction

PEDIOCOCCUS PENTOSACEUS

Powerful lactic acid producer that grows rapidly in early fermentation leading to a rapid pH reduction and low ultimate pH

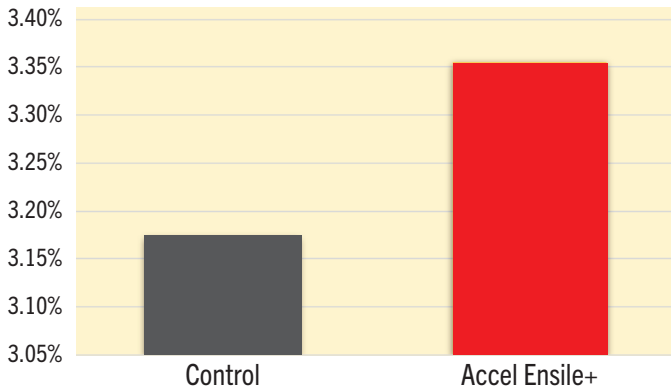
LACTOBACILLUS PLANTARUM

Powerful lactic acid producer and strong prohibiter of yeast growth, specializes in improving energy and dry matter recovery and inhibits protein breakdown

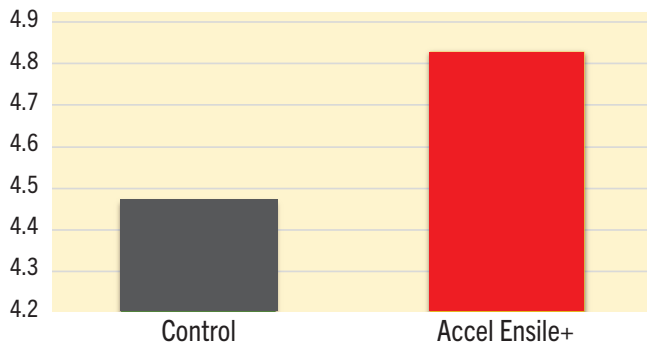
ACCEL ENSILE+

DATA AND RESEARCH

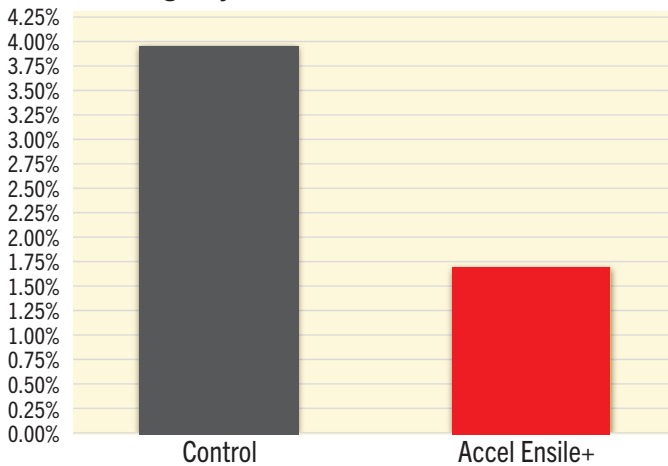
Lactic Acid from Four Individual Trials



Total Volatile Fatty Acid Production from Four Individual Trials



Average Dry Matter Loss from Four Individual Trials



Assuming the value of alfalfa silage is \$70 per ton as-fed (at 60% moisture), each percentage point improvement in dry matter recovery is worth \$1.75 per ton. Accel Ensile+ improves dry matter recovery by 2.2% or a value of \$3.85 per ton.

STORAGE

- For short-term storage, store in a cool, dry area away from sunlight.
- Once jar or bag is open, any unused product should be stored in a refrigerator.
- For maximum long-term storage (between crop seasons), store in a freezer.
- Do not leave product packaging open during storage.
- Discard any product not used within seven days of opening if unable to store in a refrigerator.
- Unopened jar or bags can be stored for up to 18 months at 70 degrees Fahrenheit.

PACKAGING

- Each 100 gram packet of Accel Ensile+ 100W will treat 100 tons of harvested forage.
- Each 500 gram jar of Accel Ensile+ 500W will treat 500 tons of harvested forage.
- Each 50 pound bag of Accel Ensile+ 100D will treat 100 tons of as-fed forage.

DIRECTIONS FOR USE

ACCEL ENSILE+ 100W:

Dissolve contents of 1 100-gram packet of Accel Ensile+ 100W into a proper amount of water to inoculate 100 tons of high-moisture forage or grain based on applicator recommendations and settings.

ACCEL ENSILE+ 500W:

Apply 1 gram of inoculant per ton of harvested crop to provide 150,000 CFU of live, naturally occurring microorganisms to each ton of crop. Scoop: The enclosed scoop holds approximately 50 grams and treats 50 ton. Mix into cool, clean water. Apply solution based on application rate for the type of applicator. Standard Application: Mix to apply 1-2 quarts/ton of harvested crop. Bacteria will remain viable in concentrated tank mix for up to two days at 70 degrees Fahrenheit or below.

ACCEL ENSILE+ 100D

Apply Accel Ensile+ 100D to all types of high-moisture forages and grains at the rate of 1/2 pound per ton of ensiled product.

ACCEL ENSILE+ ASB 250W

INOCULANT FOR HIGH MOISTURE GRAIN CROPS AT RISK OF AEROBIC SPOILAGE

Accel Ensile+ ASB is a water-soluble inoculant that contains all of the powerful benefits of Accel Ensile+ blended with *L. Buchneri* to enhance nutrient preservation and aerobic stability upon feed-out of silages or High-Moisture corn.

Formulated to produce high levels of lactic acid during the beginning of fermentation as well as increased levels of acetic acid at the end of fermentation.

High moisture grain crops such as High-Moisture corn, snaplage, earlage, etc. tend to be at a higher risk of aerobic spoilage during the feed-out phase of storage. Often elevated levels of yeast and molds will cause increased temperatures of the forage. This reduces the nutrient content of the feed, creating a negative result in animal performance. The use of an *L. Buchneri* inoculant on these crops has proven to significantly reduce those effects.

BENEFITS

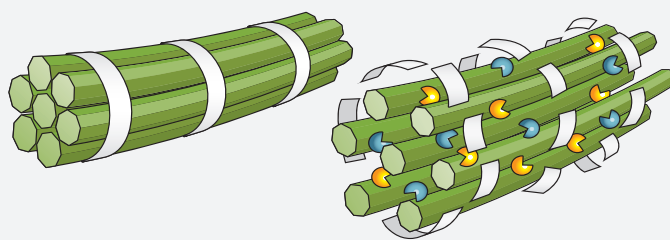
- Improved aerobic stability
- Improved fiber digestibility
- Fast and efficient fermentation
 - Faster pH decline
 - Improved dry matter retention
 - Higher lactic acid production
 - Lower nutrient degradation
- Improved animal performance due to improved Neutral Detergent Fiber digestibility and starch digestibility
- Research demonstrated milk production increased by an average of 0.72 pounds of milk production for each 1% improvement in total-tract starch digestibility
- Fast growing and competitive lactic acid bacteria dominate and significantly reduce silage pH

FEATURES

- Bacteria stabilizer to assure bacteria are healthy and viable at the time of application
- Water soluble form for ease of application
- Excellent mixing and resuspension characteristics
- Formulated, blended and packaged in a certified facility to ensure viability and effectiveness
- Noncorrosive and nontoxic

ADVANCED ENZYME PACKAGE

The diagram (below) illustrates how Accel Ensile+ enzyme packages break up fiber bundles allowing rumen microbes more access to plant fiber increasing nutrient absorption.



Enzymes

Amylase (*Bacillus subtilis*): 4,540 BAU per ton of forage

Xylanase (*Trichoderma longibrachiatum*): 908 XU per ton of forage

Glucanase (*Trichoderma longibrachiatum*): 908 BGU per ton of forage

TWO STRAINS OF BACTERIA

PEDIOCOCCUS PENTOSACEUS

Powerful lactic acid producer that grows rapidly in early fermentation leading to a rapid pH reduction and low ultimate pH

L. BUCHNERI

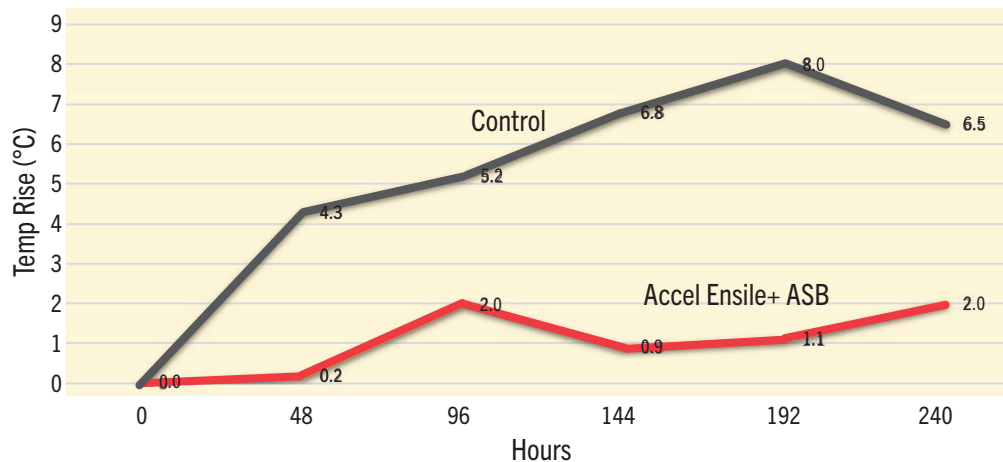
Powerful inhibitor of yeast growth, specializes in improving energy and dry matter recovery and inhibits protein breakdown



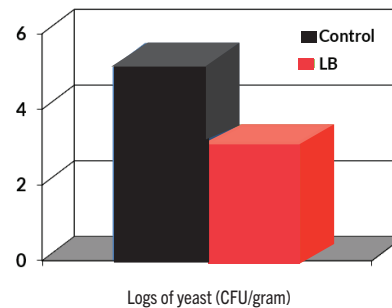
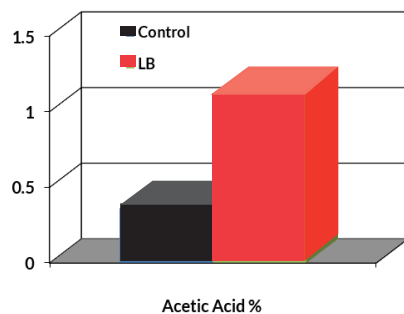
ACCEL ENSILE+ ASB 250W

DATA AND RESEARCH

EFFECT OF ACCEL ENSILE+ ASB ON AEROBIC STABILITY



EFFECT OF *L. BUCHNERI* ON AEROBIC STABILITY IN HIGH-MOISTURE CORN - LAB SILOS



STORAGE

- For short-term storage, store in a cool, dry area away from sunlight.
- Once jar is open, any unused product should be stored in a refrigerator.
- For maximum long-term storage (between crop seasons), store in a freezer.
- Do not leave product packaging open during storage.
- Discard any product not used within seven days of opening if unable to store in a refrigerator.
- Unopened jars can be stored for up to 18 months at 70 degrees Fahrenheit.

PACKAGING

- Each 500 gram jar of water soluble Accel Ensile+ will treat 250 tons of harvested silage or 167 tons of High-Moisture corn, snaplage or earlage.

DIRECTIONS FOR USE

Mix with cool, clean water. Apply solution based on application rate for the type of applicator.

Standard Application: Mix to apply 1-2 quarts per ton of harvested crop

Low Volume Application: Accel Ensile+ ASB has been formulated so that it can be applied through low volume application systems. Bacteria will remain viable in concentrated tank mix for up to two days at 70 degrees Fahrenheit or below.

Corn and Sorghum Silage: Apply 2 grams of product per ton of harvested crop to provide 500,000 CFU of live, naturally occurring microorganisms to each gram of crop.

High-Moisture Corn, Snaplage, Earlage: Apply 3 grams of product per ton of harvested crop to provide 750,000 CFU live, naturally occurring microorganisms to each gram of crop.