

Pioneer® brand 11AFT

Alfalfa Silage Inoculant



Pioneer® brand 11AFT is a revolutionary patented alfalfa silage product designed to:

- Improve fiber digestibility
- Improve forage energy density to help reduce supplemental feed cost
- Improve alfalfa fermentation

Available as a water-soluble product in packaging suitable for use in tank mixes or with the Pioneer Appli-Pro® Application Systems.

11AFT contains a novel strain of *Lactobacillus buchneri* which:

- Produces specific fiber-digesting enzymes as it replicates in silage
- Reduces shrink and improves bunklife of the silage face during feedout

11AFT also contains a unique strain of alfalfa specific *Lactobacillus plantarum* formulated to:

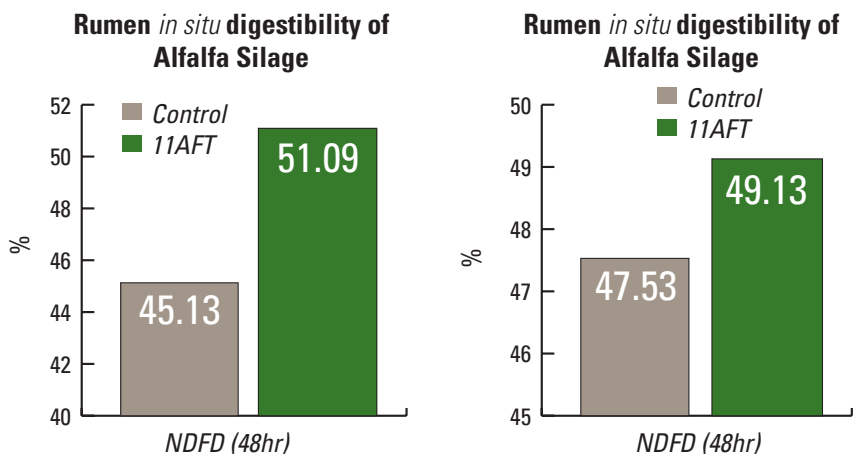
- Stimulate “front-end” fermentation efficiency by rapidly dropping pH, helping to retain valuable nutrients (sugar)
- Reduce protein degradation
- Help lower feed costs by reducing need for bypass protein supplementation

Available in Package Sizes:

**	Improves Fermentation
***	Enhances Bunklife
***	Improves Fiber Digestibility

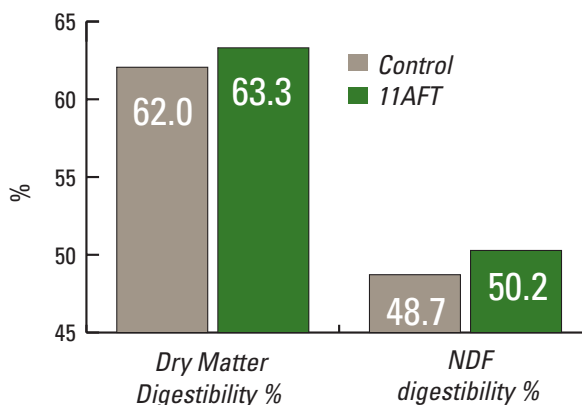
Relative Ratings * = Good; ** = Excellent; *** = Outstanding, NA = Not Applicable. IMPORTANT: Information and ratings are based on relative comparisons with other Pioneer® brand inoculants within each specific crop, not competitive products. Information and ratings are assigned by DuPont Pioneer Forage Additive Research, based on average performance across area of use under normal conditions, over a wide range of both environment and management conditions, and may not predict future results. Product responses are variable and subject to any number of environmental and management conditions. Please use this information as only part of your product positioning decision. Refer to www.pioneer.com/inoculants or contact a Pioneer sales professional for the latest and most complete listing of traits and scores for each Pioneer® brand product. Fermentation – rate and extent of pH decline and the composition of fermentation acids occurring in silage. Bunklife – relative heat development compared to ambient temperature. Bunklife considers both how quickly silage begins to heat and the amount of heat generated while remaining above ambient temperature. Fiber Digestibility – the digestibility of neutral detergent fiber (NDF) by the ruminant animal expressed as a percentage of the total NDF.

Animal research shows 11AFT is effective in improving NDF digestibility



Source: DuPont Pioneer Livestock Nutrition Center, Iowa Summary of two trials (1st and 2nd cut alfalfa) with 5 experimental silos per treatment. *In situ* measurements were conducted with 16 replicates on each silo using fistulated beef steers.

Source: DuPont Pioneer Livestock Nutrition Center, Iowa Summary of four trials (1st and 2nd cut alfalfa) with 5 experimental silos per treatment. *In situ* measurements were conducted with 16 replicates on each silo using fistulated beef steers.



Source: DuPont Pioneer Livestock Nutrition Center, Iowa First cut alfalfa silage lamb digestion using 12 replicate lambs per treatment

11AFT Ration Impact

Original ration balanced for 90 lbs milk/3.6% fat with cows fed 20 lbs alfalfa silage, (as fed basis). Modeled using CNCPS 6.1.36.0. Ration cost reduced by removing some soybean meal while maintaining ME and MP predicted milk at original levels.

Reduced SBM* by 0.63 lb	11.0¢/Cow/Day
Typical cost to treat 20 lbs of alfalfa silage with 11AFT	3.0¢/Cow/Day
Additional cost of feeding 1.5 lbs more 11AFT treated silage	3.7¢/Cow/Day
Net Gain:	4.3¢/Cow/Day

* Soybean meal was valued at \$350/Ton

Additional value not included in calculations: reduced silage shrink in the bunker, higher forage diet for better rumen health and improved ration palatability.

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