

11C33 CORN SILAGE INOCULANT

Pioneer[®] brand 11C33 is a corn silage product designed to:

- Improve animal performance over Pioneer® brand 1132.
- Improve silage quality providing low terminal pH and desirable VFA profile.
- Reduce heating, increasing bunklife.

Available as water-soluble product in packaging suitable for use in tank mixes or with the Pioneer Appli-Pro[®] SLV application system.

11C33 contains a unique blend of patented proprietary strains of *Lactobacillus buchneri*, *Lactobacillus plantarum* and *Enterococcus faecium*^{*} formulated to:

- Enhance fermentation in whole-plant corn silage, delivering an improved fermentation acid profile which helps to enhance anaerobic dry matter recovery or preservation.
- Minimize dry matter losses.

L. buchneri is a lactic acid bacterium that produces a broad spectrum of volatile fatty acids during silage fermentation, which can help to substantially decrease the growth of yeast and mold species.





* (U.S. PATENT NO. 6,403,084)





Total dry matter loss of whole-plant corn silage treated with Pioneer corn silage inoculants. Total dry matter loss is the sum of the dry matter loss during the anaerobic fermentation and that lost after exposure to oxygen under the specifications of the Honig model. Data was compiled from 47 trials conducted between 2000 and 2002.



Pioneer brand 11C33 was compared to Pioneer 1132 in 10 ensiling trials during 2002. Silages were analyzed for nutrient composition and tested for *in situ* NDF digestibility. The resultant values were used to calculate the milk yield using Milk2000 (University of Wisconsin). Milk/ton silage fed was obtained directly from Milk2000. Milk/ton ensiled was calculated from milk/ton silage fed by taking account of dry matter recovery. The combined advantage of 11C33 over 1132 in performance and dry matter recovery from ensiling to feeding is equivalent to 128 lbs more milk/ton ensiled.



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