

## VALIDATION CERTIFICATE

Pioneer validates that the following Forage Additives consist of various strains of *Lactobacillus plantarum*, *Lactobacillus casei*, *Enterococcus faecium*, or *Lactobacillus buchneri*. The individual strains of lactic acid bacteria were isolated from natural sources, specifically, forages and silages, by standard microbiological methods. Pioneer sets forage additive purity standards to ensure that products purchased by our customers are as pure as possible. The strains, which comprise each of the Pioneer® brand forage additives, were selected for their ability to improve the ensiling process and/or forage preservation related to specific crops.

The inputs/ingredients contained in Pioneer brand forage additives were not produced using genetic engineering techniques or derived from genetically modified organisms. In addition to the bacterial component, Pioneer forage additives contain food-grade ingredients procured from non-GMO sources.

**1174, 1189, 11H50, 11C33, 11B91, 11G22,  
11AFT, 11CFT, 11GFT**



**PIONEER®**

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