



PIONEER
BRAND • SEEDS

Inoculant – Technical fact sheet

Maize silage inoculant with Rapid React™ Aerobic Stability

11C33



Pioneer® brand 11C33 with Rapid React® Aerobic Stability is a maize specific inoculant which contains live lactic acid-producing bacteria.

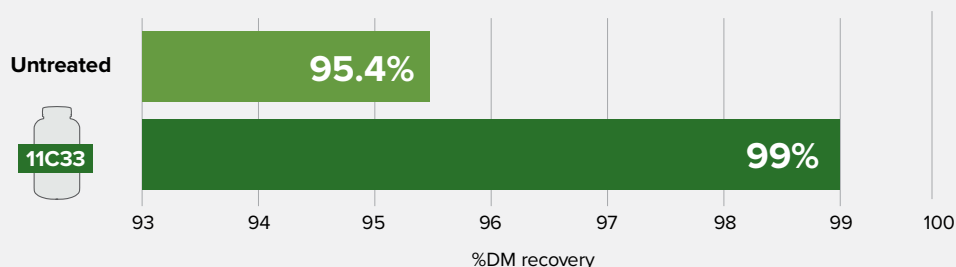
- Patented strains of *Lactobacillus buchneri* and *Lactobacillus plantarum* have been specifically selected to assist in the production of high quality maize silage
- 11C33 works by improving fermentation efficiency while reducing growth of yeast and mould responsible for heating and spoilage at feed-out

Rapid React® – fast feedout 7 days

- Maize specific
- Improves fermentation
- Increases dry matter recovery & animal performance
- Reduces heating (aerobic spoilage)
- Feed out one day in advance
- Maximise return on silage
- Easily manage large pitface

Improved drymatter recovery

Trials showed an improved drymatter recovery of 3.6% which means there is more feed available to be fed.

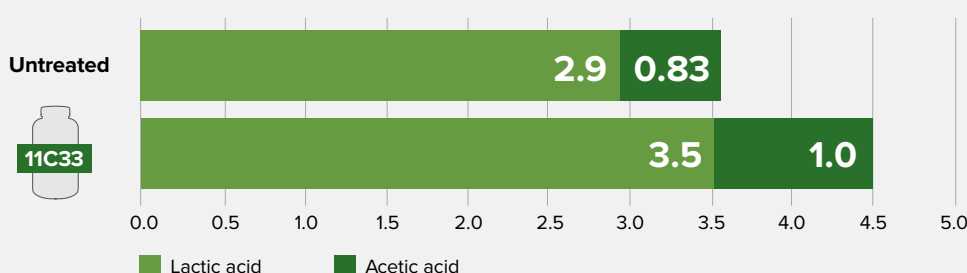


3.6%
more
drymatter

Source: Pioneer Livestock Nutrition Center, Iowa.
Summary of two trials. Significance level P<0.05.

Improved acid profiles

A New Zealand trial conducted in 2022 looked at the difference between 11C33 and an untreated control after only 9-11 days since ensiling. The increased lactic and acetic acid confirmed the advantage of the *Lactobacillus plantarum* and *Lactobacillus buchneri* strains present in 11C33.



21%
increase in
lactic acid

20%
increase in
acetic acid

Source: 2022 NZ inoculant study.
Significance level P<0.05.

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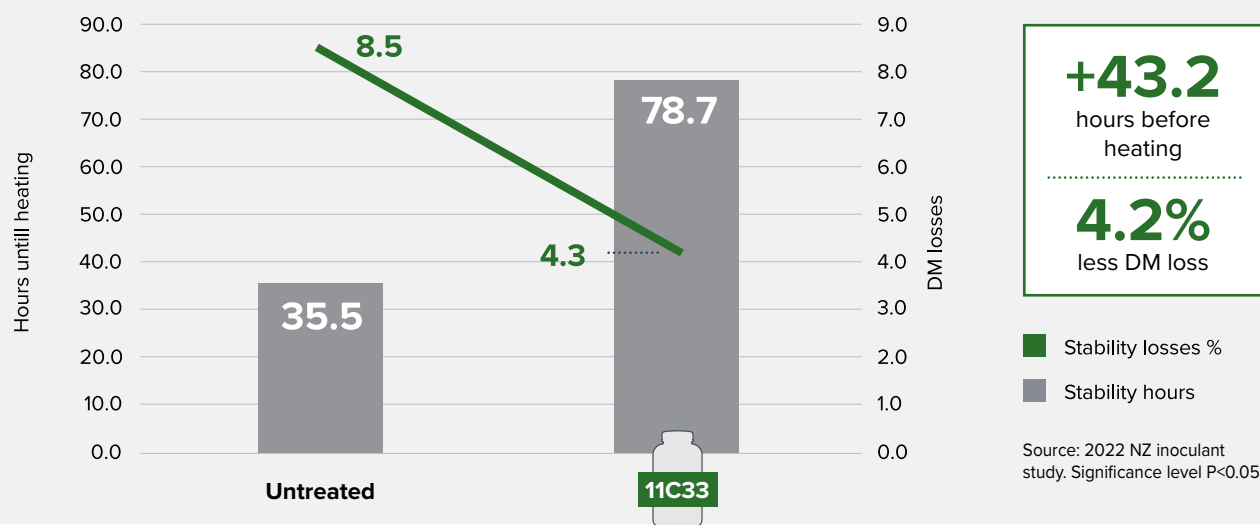
11C33

Improved aerobic stability and reduced aerobic losses

The same trial in NZ looked at the time taken to heat and DM losses at two different opening times compared to an untreated control. The early opening (day 9-11) and the late opening (day 60) both showed an advantage to 11C33.

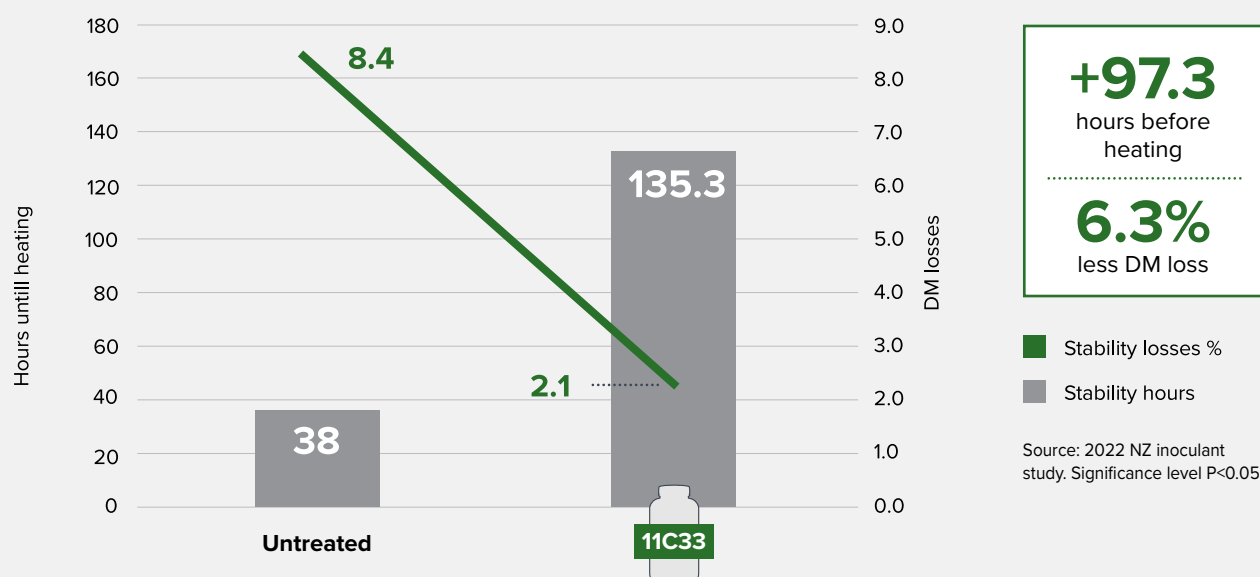
The early opening showed +43.2 hours before heating and 4.2% less DM loss.

Early opening heating and DM losses



The late opening showed +97.3 hours before heating and 6.3% less DM loss.

Late opening heating and DM losses



Pioneer® brand seeds are produced and distributed in Australia by GenTech Seeds, a Yates Family Business