

INOCULANT TECH SHEET

Grass/cereal silage inoculant

11GFT

Pioneer® brand 11GFT is a revolutionary patented grass and cereal silage product designed to:

- Increase fibre digestibility
- Improve forage energy density to help reduce supplementary feed cost
- Improve grass/cereal fermentation
- Improve bunklife

Available as a water-soluble product in packaging suitable for use in tank mixes.

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

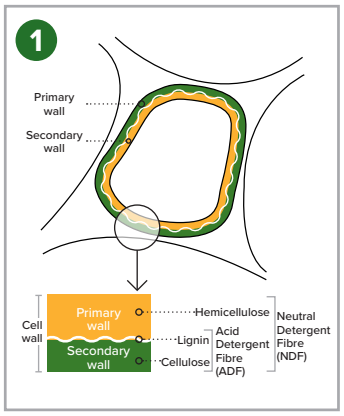
- Produces specific fibre digesting enzymes as it replicates in silage
- Reduces shrinkage and decreases heating at the pit face when feeding out

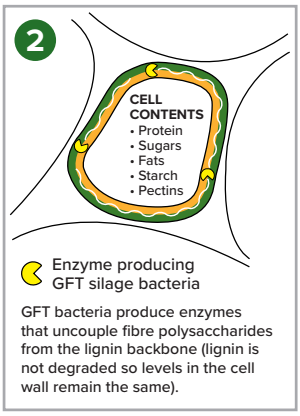
11GFT also contains unique, patented strains of grass/cereal specific *Lactobacillus casei* and *Lactobacillus plantarum* formulated to:

- Stimulate “front-end” fermentation efficiency by rapidly dropping pH helping to retain valuable nutrients (sugar, starch)
- Help lower feed costs by reducing grain and protein supplementation

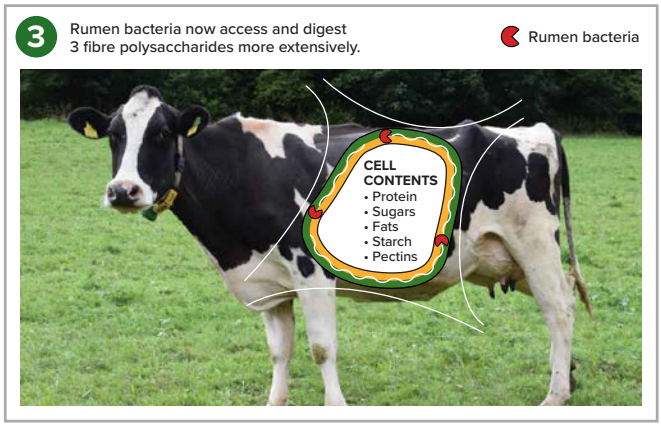
How does Nutrivail Technology work?

Proprietary, novel *Lactobacillus buchneri* bacteria produce enzymes (ferulate and acetyl esterases) which modify cell wall fibre (decoupling it from lignin) in the storage structure allowing more extensive fibre digestion when the silage is degraded by rumen bacteria.





GFT bacteria produce enzymes that uncouple fibre polysaccharides from the lignin backbone (lignin is not degraded so levels in the cell wall remain the same).

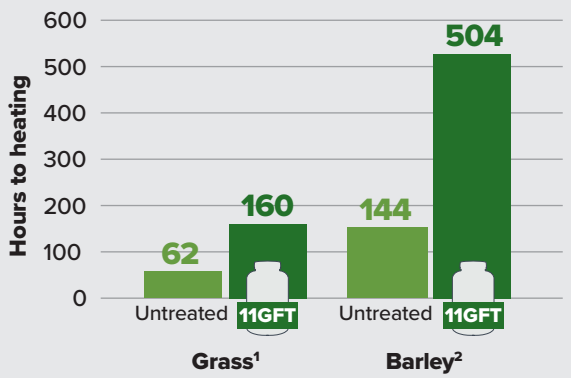


Inoculant – Technical fact

Grass/cereal silage inoculant

11GFT

Improved aerobic stability

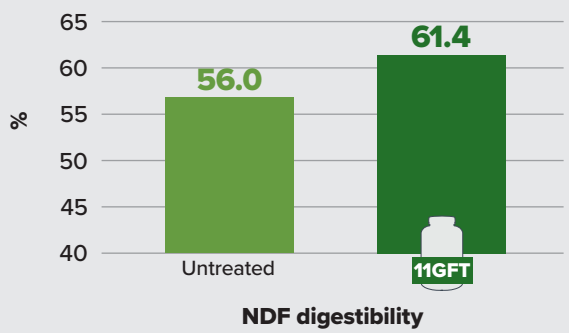


Source:

[1] Summary of eight grass silage trials conducted at the Pioneer Northern Europe laboratory in Germany.

[2] Addah et al 2012. J. Anim. Sci. 90:1541–1552. Trial was conducted at the Lethbridge Research Centre, Agriculture and Agri-Food Canada using six silos per treatment.

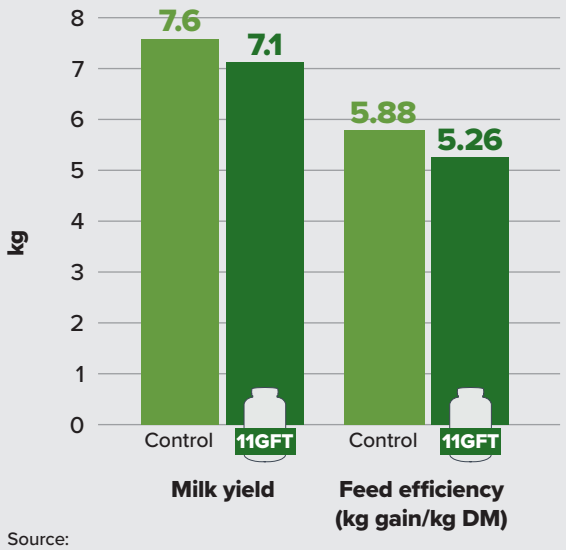
Increased NDF digestibility



Source:

[3] First cut grass silage fed to lambs. 12 animals per treatment, Pioneer Livestock Nutrition Centre, Iowa, USA.

Improved dairy performance



Source:

[4] Addah et al 2012. J. Anim. Sci. 90:1541–1552. Trial was conducted at the Lethbridge Research Centre, Agriculture and Agri-Food Canada using 20 steers per treatment.

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