



11CFT CORN FIBER TECHNOLOGY

...BEYOND FERMENTATION

Pioneer® brand **11CFT** is a revolutionary, new corn silage product (Patent Pending) designed to:

- Improve fiber digestibility and dry matter intake.
- Facilitate higher corn silage ration inclusion rates.

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

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

- Produces specific fiber digesting enzymes as it replicates in silage.
- Improves stability and bunklife from the production of unique silage volatile fatty acid profiles that inhibit yeast and aerobic bacterial populations.

In addition to fiber-digesting enzyme production, **11CFT** contains a unique patented strain of *Lactobacillus casei* formulated to:

- Stimulates “front-end” fermentation efficiency by rapidly dropping silage pH helping to retain valuable nutrients (sugar, starch).



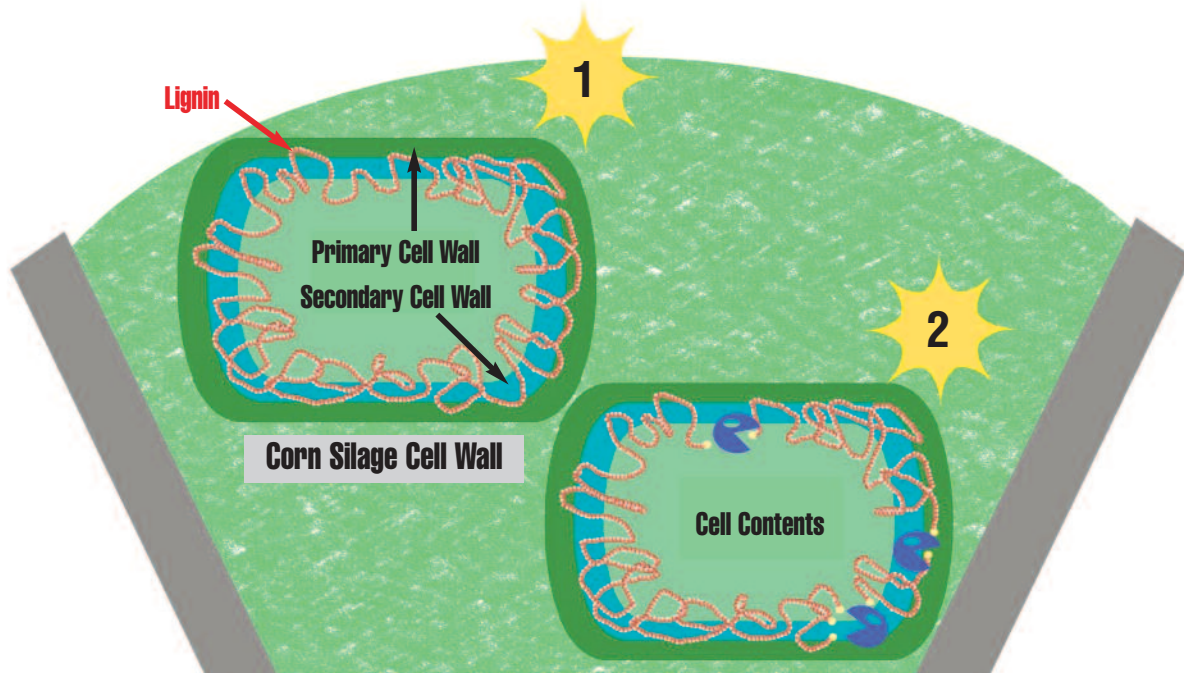
Animal research shows 11CFT is effective in:

- Improving NDF digestibility,
- Improving feed intake.
- Improving animal performance.



How Does CFT Work?

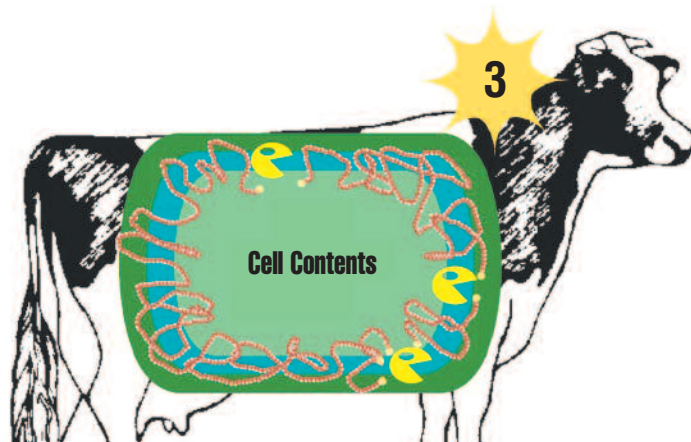
Proprietary, novel *L. Buchneri* bacteria produce enzymes (ferulate and acetyl esterases) which modify cell wall fiber (decoupling it from lignin) in the storage structure allowing more extensive fiber digestion when the silage is degraded by rumen bacteria.



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

 **Enzyme producing CFT silage bacteria**

 **Rumen bacteria**



Rumen bacteria now access and digest fiber polysaccharides more extensively.



PIONEER[®]
A DUPONT COMPANY

Pioneer[®] brand products are provided subject to the terms and conditions of purchase which are part of the labeling and purchase documents. Pioneer is a brand name; numbers identify products.

[®], SM, TM Trademarks and service marks of Pioneer Hi-Bred. © 2008 PHIL.