

Micro-Cell LA Specification Sheet

MICRO-CELL® LA, is a strain of *Lactobacillus acidophilus* (BT1386) bacteria which exhibits significant probiotic properties in the lower gut of beef cattle fed all types of rations. Exclusively licensed to Lallemand Animal Nutrition (LAN), **MICRO-CELL® LA** was first isolated in the 1980's by North Carolina State University as a probiotic for its inhibitory effects on a number of detrimental organisms including *E. coli*, *S. aureus*, *Salmonella*, *S. typhimurium* and *Pseudomonas*. Recent independent studies have shown feeding **MICRO-CELL® LA** at the recommended dose restricts growth of *E. coli* O157:H7 in cattle feces.

Feeding **MICRO-CELL® LA** promotes and maintains a normal intestinal environment which inhibits the ability of pathogens to develop infection, and thus indirectly contributes to animal performance and feed efficiency. These performance characteristics have been demonstrated over many years in feedyards and in trials. **MICRO-CELL® LA** has seen increased focus with the growing pressure of current food safety concerns in regards to *E. coli* O157:H7.

WHY DOES THIS STRAIN WORK SO WELL?

The **MICRO-CELL® LA** strain thrives in the intestinal environment and will colonize the hind gut. In the gut environment it grows vigorously and prolifically and therefore has an advantage over other bacteria in the competition for gut attachment sites. When fed at the rate of 500 million Colony Forming Units per day, **MICRO-CELL® LA** excludes pathogenic bacteria such as; *E. coli*, *Listeria*, *Salmonella*, etc. and will help prevent them from colonizing in the lower gut. In addition, the **MICRO-CELL® LA** strain stimulates the animal's immune system and helps produce beneficial digestive enzymes. These characteristics have led to proven economical benefits for the beef producer.

FUNCTIONALITY

MICRO-CELL LA is a lyophilized (freeze-dried) bacteria for feeding to finishing cattle on high concentrate finishing rations. It contains a source of live, naturally occurring, stabilized microorganisms.

MICRO-CELL LA contains *Lactobacillus acidophilus* resulting from a comprehensive research and development program.

GUARANTEED ANALYSIS

Lactic acid bacteria not less than 10 billion Colony Forming Units (CFU) per gram from *Lactobacillus MICRO-CELL LA* supplies 500 million CFU *Lactobacillus acidophilus* per head per day.

INGREDIENTS

Sucrose, dried *Lactobacillus acidophilus* fermentation product, sodium aluminosilicate and silicon dioxide.

STORAGE AND HANDLING

Store below 4°C (40°F) preferably in a freezer. Keep all application equipment clean and well maintained.

EXPIRATION DATE

Use within 12 months of date shown on package.

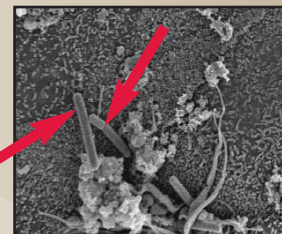
FEEDING RATES

- Apply only with approved equipment or as part of the Micro-Cell DIRECT Program.
- Prevent condensation by removing package from freezer 5 - 10 minutes prior to use.
- Apply to feed at the rate of 0.05 gram per head per day.

PACKAGING

PACKAGE	SHIPPING UNIT
500 g foil pouch	1 x 500 g

Scanning electron micrograph of *L. acidophilus* adhering to epithelial cells in culture. Arrows point to *L. acidophilus* attached to cell surface.



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