

LactiproEDGE®



Protect your
investment



Proven, trusted
solution



24/7 protection

LactiproEDGE® safeguards your cattle investment with a trusted, reliable solution to support diet changes and manage acidotic risk. It combines the proven benefits of Lactipro® with the convenience of an innovative in-feed formulation. Built on more than a decade of development, LactiproEDGE delivers a live form of *Megasphaera elsdenii* (*Mega e*®) directly in the ration, providing a consistent daily dose to the rumen during critical periods of the feeding cycle.

Axiota developed unique, patented processes for fermenting *Mega e*®, then freeze-drying and encapsulating the bacteria, ensuring viability at every stage - from distribution, to feed manufacturing, to delivery.

What is *Mega e*?

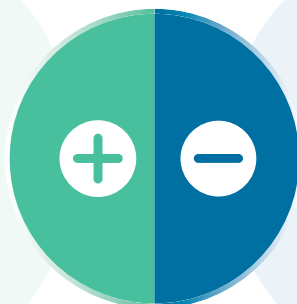
Mega e is a naturally occurring bacteria found in the rumen that helps digest high-energy diets. It plays an essential role in maintaining rumen health by breaking down lactic acid, which can build up when animals are fed grain-based diets.

Key benefits of *Mega e*:

- **Supports digestion:** Consumes and uses lactic acid as an energy source, unlike other rumen bacteria.
- **Stabilises pH:** Reduction in lactate levels leads to more consistent ruminal pH
- **Promotes rumen health:** Produces beneficial compounds such as butyric and propionic acids, which support rumen health and nutrient absorption.

Butyric acid

- + Primarily metabolised in epithelial cells that line the gastrointestinal tract.
- + Promotes ruminal papillae growth and health, enabling cattle to better absorb other VFAs.
- + Functional papillae and villi are critical to rumen and intestinal health.



Lactic acid

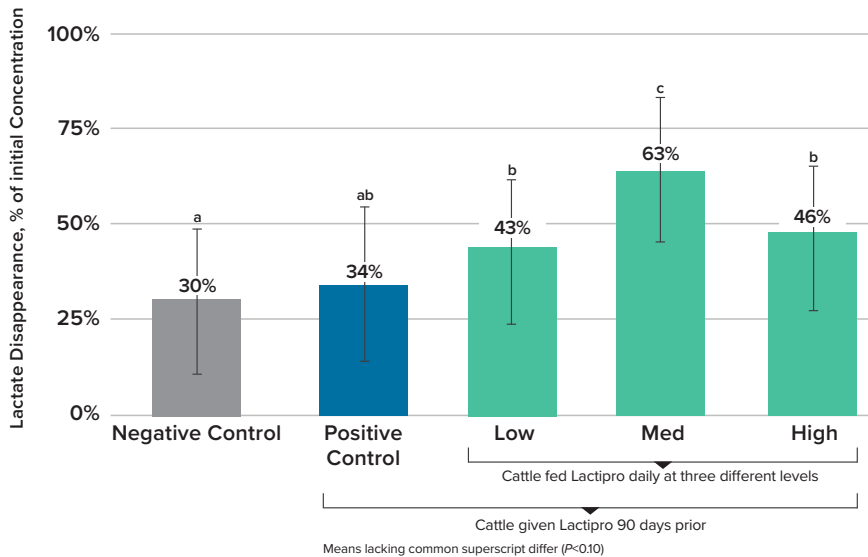
- High-concentrate diets can cause lactic acid to build up.
- Lactate is approximately 10 times stronger than other VFAs and has a significant influence on pH reduction.
- As the pH level drops, acidosis sets in and can cause damage to papillae and rumen epithelium (rumenitis).

Backed by Research

A proof-of-concept study at the University of Nebraska-Lincoln fed Lactipro to castrated steers and measured lactate utilisation in the rumen fluid at various time points, both before and after imposing an acidosis challenge.

Lactate Disappearance Study

12 hour incubation with rumen fluid following an acidosis challenge



The study yielded three key findings:

- Cattle fed *Mega e* daily showed **faster recovery of dry matter** intake following an acidosis challenge.
- Rumen samples showed a **greater capacity to metabolise ruminal lactate** during the post-challenge and recovery periods
- The dose-response data enabled Axiota to formulate an optimal in-feed dose for LactiproEDGE

LactiproEDGE helps cattle perform efficiently and consistently by delivering a live form of *Mega e* directly in the feed, ensuring consistent support during key feeding periods. It places a large number of viable *Mega e* in its native environment – the rumen – where it immediately begins targeting lactic acid.

A healthy population of *Mega e* in the rumen:

- Leads rumen fermentation in the right direction
- Stabilises rumen pH
- Contributes to the growth of rumen papillae, which absorb nutrients
- Supports the development and maintenance of a healthy rumen

Ready to start using LactiproEDGE?

Contact your BEC Feed Solutions representative to discuss incorporating LactiproEDGE into your feeding protocols.



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