



Levucell[®] SC
Rumen Specific Yeast

Levucell SC and Levucell TITAN



LEVUCCELL SC RUMEN SPECIFIC LIVE YEAST

Levucell SC is a natural and well documented rumen specific live yeast (*Saccharomyces cerevisiae* CNCM I-1077). Levucell SC is classified as an active dry yeast; the strain has been selected from among thousands of strains for its high capacity to improve rumen function. It has been validated by leading research centers and more than 50 scientific publications.

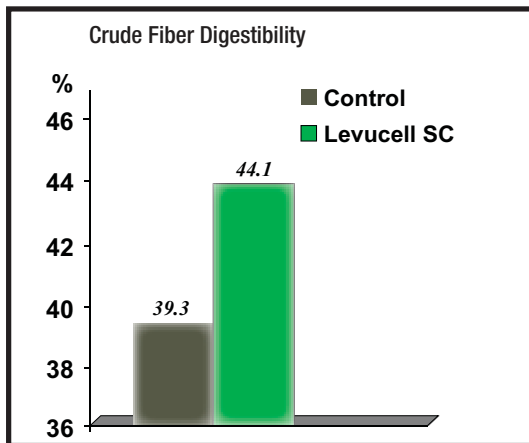
LEVUCCELL SC MODE OF ACTION

Levucell SC for beef improves rumen health and function through several mechanisms:

- 1 Increased fiber digestibility
- 2 Increased rumen pH, reducing the incidence of acidosis
- 3 Improved rumen health

1 INCREASED FIBER DIGESTIBILITY

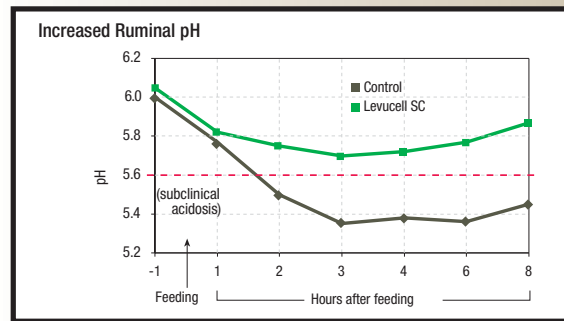
The rumen specific live yeast, Levucell SC, stimulates fiber digesting microbes, their enzymatic activity, and fiber digestibility; this results in maximizing energy from the forage and the diet with improved feed efficiency.



Schwartz et al, 2002

2 INCREASED RUMEN PH, REDUCED INCIDENCE OF ACIDOSIS

Levucell SC increased rumen pH. Subclinical acidosis occurs when the rumen falls below 5.6.



Chaucheyras-Durand et al, 1997

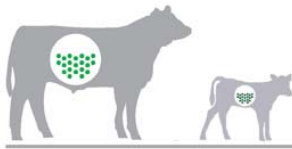
3 IMPROVED RUMEN HEALTH

By stabilizing rumen equilibrium and limiting risk of acidosis, Levucell SC improves the integrity of the rumen wall and its papillae.

Treatment	Healthy Rumen Wall*	Rumen Wall Lesions*
Control	63.3%	36.7%
Levucell SC	83.3%	16.7%
Rumen Wall		

*Values expressed as a percentage of animals per treatment

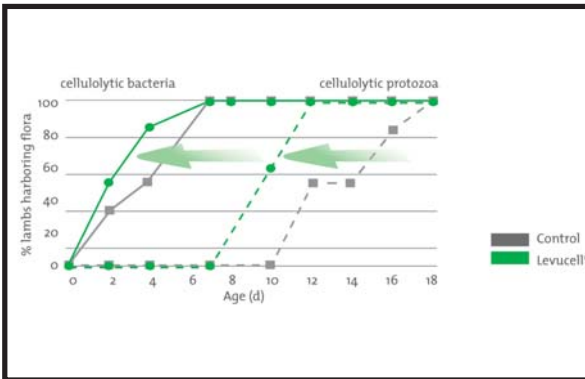
Levucell for Growing & Finishing



Levucell^{SC} Rumen Specific Yeast

LEVUCCELL SC FOR THE CALF

Levucell SC stimulates a faster establishment of rumen microbial communities. This results in improved feed intake and feed digestion.



Chaucheyras-Durand et al, 2002

The use of Levucell SC has been shown to increase feed intake and weight gain and decrease the incidence of digestive problems. This was clearly shown in a calf trial at University of California, Davis (Santos et al, 2003).

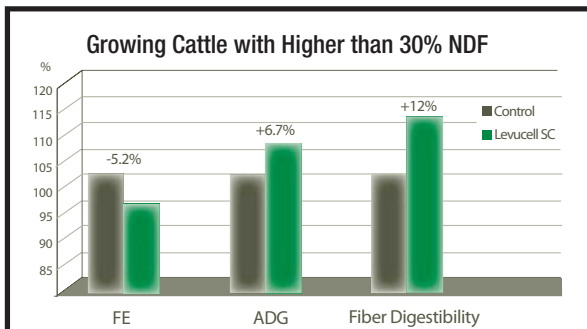
LEVUCCELL SC FOR GROWING CATTLE

Levucell SC for growing cattle maximizes growth potential through:

- Increased average daily weight gain
- Optimized feed efficiency
- Reduced overall morbidity

A recent meta-analysis summarized the results of international trials:

Levucell SC improves feed efficiency and average daily gain in growing cattle fed high roughage diets.

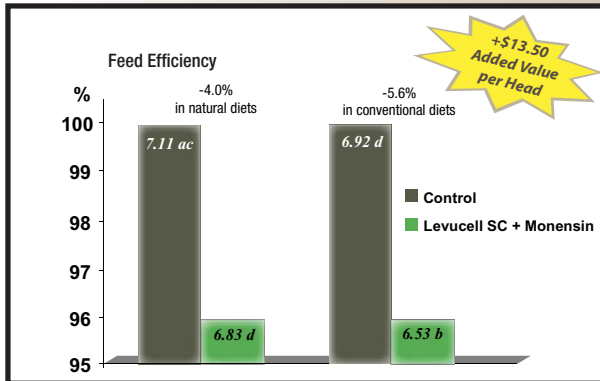


Schwartz et al, 2001

Levucell SC and Levucell TITAN

LEVUCCELL SC FOR FINISHING CATTLE

In conventional finishing diets containing Monensin, Levucell SC further improves feed efficiency.



Overall, the effect of feeding Levucell SC results in additional revenue of \$13.50/head with a trend for an even higher return with conventional diets: +\$17.50/head; Natural programs return \$9.67/head. (University of Pretoria, JAM-ADSA 2009, **international meta-analysis Ivy Elanco-Lallemand, 2009)

PRODUCT SPECIFICATIONS

A formulation adapted for all types of ruminant feeding practices.

Levucell SC for Meal Feed		
Package Size	Dose*	CFU/dose
500 gram foil pouch	400 mg/hd/d (0.4g)	8 million
20 kg box	400 mg/hd/d (0.4g)	8 million

Levucell titan TM for Pelleted Feed		
Package Size	Dose*	CFU/dose
20 kg box	800 mg/hd/d (0.8 g)	8 million

Lallemand developed a patented micro-encapsulation system: a unique coating technology which provides best stability in all types of solid feed.

*Also available in higher dosage Farm Packs.