

# THE RUMEN: A POWERFUL ENGINE DRIVING YOUR HERD'S PERFORMANCE



**Levucell** **SC**  
*Rumen Specific Yeast*



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LALLEMAND ANIMAL NUTRITION



# OUR MISSION: NATURALLY ENHANCING RUMEN FUNCTION AND PERFORMANCE

The objective of modern dairy, beef and small ruminant production is to provide consumers with high quality milk and meat while maximizing income over feed cost naturally. We can help.

LEVUCELL SC has been selected for its capacity to optimise rumen efficiency and milk and meat production.

As part of a daily ration, LEVUCELL SC Rumen Specific Live Yeast has been proven to:

- Accelerate early rumen development of young ruminants
- Increase rumen pH
- Improve fibre digestion
- Create a more anaerobic environment in the rumen

LEVUCELL SC can help you produce more, higher quality milk and meat – and make more money.

## HOW IT WORKS

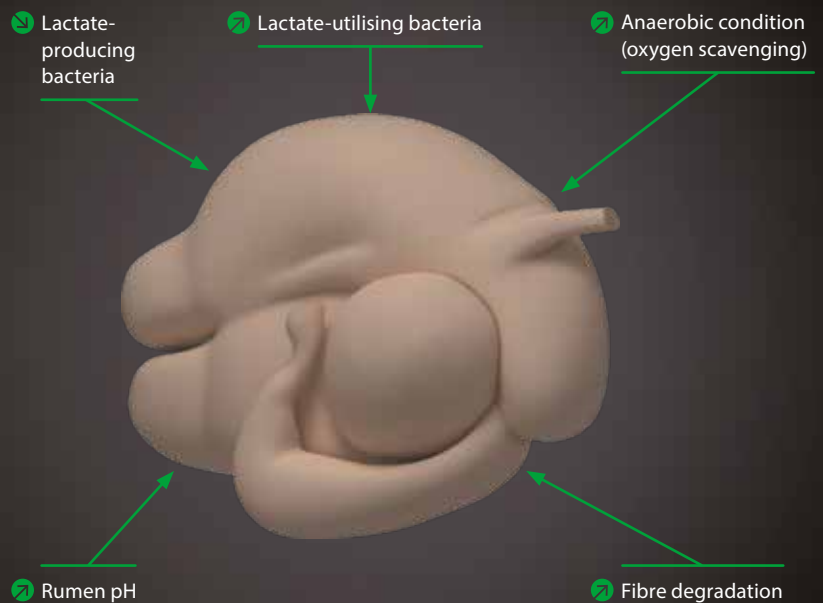
The key to maximising ruminant production and profitability is optimising rumen fermentation.

LEVUCELL SC is a unique, natural, rumen specific live yeast (*Saccharomyces cerevisiae* CNCM I-1077), metabolically active and specifically selected to optimise rumen performance. This strain belongs to the *Saccharomyces cerevisiae* yeast species, widely recognized for its safe and natural properties and commonly used in food applications such as bakery, winery or brewing.

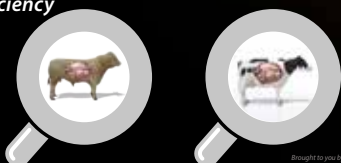
With LEVUCELL SC, you can see the difference.

LEVUCELL SC is essential for a healthy rumen: **A POWERFUL ENGINE DRIVING YOUR HERD'S PERFORMANCE.**

### Microbial population optimisation



Those symbols represent a farm assesment program of visible indicators of rumen efficiency



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**FORWARD**

Visit <http://RuminantDigestiveSystem.com>

**OPTIMISED RUMEN EFFICIENCY**

**= IMPROVED FEED EFFICIENCY, HEALTHY RUMEN AND PROFITABILITY**



## MILK-TYPE ANIMALS



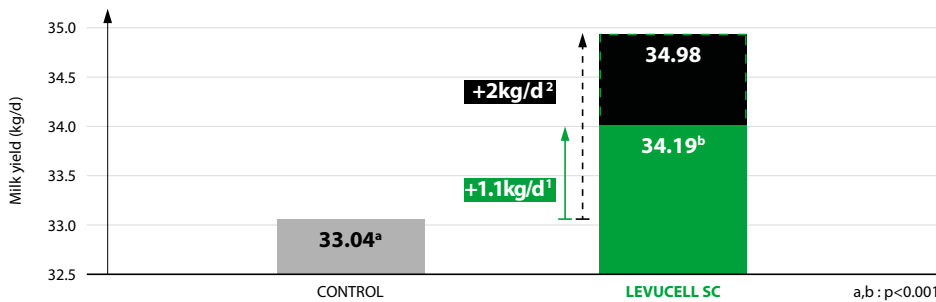
Three weeks during gestation – and all through lactation – **LEVUCELL SC** demonstrates significant and consistent improvements in milk yield and feed efficiency (+3%<sup>1</sup> to +7%<sup>2</sup>).

**LEVUCELL SC** maximises feed digestibility with increased energy per kilogram of feed intake. **LEVUCELL SC** excels during rumen-challenged conditions, improving visible indicators such as eating behavior, body condition and cleanliness.



**ROI 10:1**  
Based on an improvement of 1.1kg milk per day (0.09kgMS at 8.5%) and \$8/kgMS.)

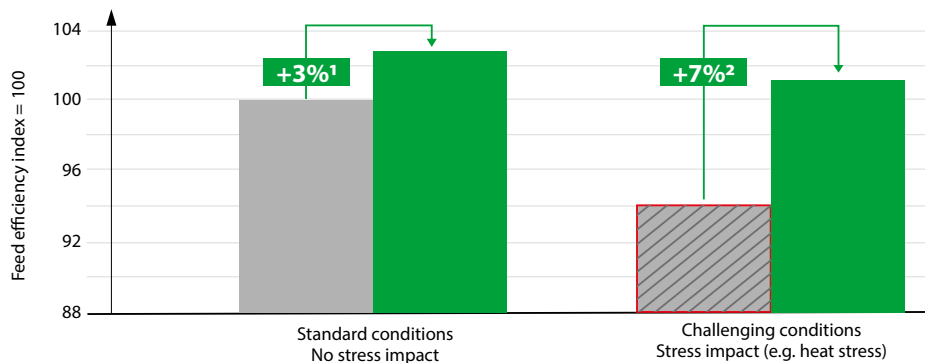
### ➤ LEVUCELL SC IMPROVES MILK YIELD (+3%<sup>1</sup> UP TO 6%<sup>2</sup>) IN DAIRY COWS



<sup>1</sup> Global meta-analysis, De Ondarza and Sniffen, 2010

<sup>2</sup> Representative results under rumen challenged conditions

### ➤ LEVUCELL SC IMPROVES FEED EFFICIENCY (+3%<sup>1</sup>) WITH A HIGHER EFFECT (+7%<sup>2</sup>) IN CHALLENGING CONDITIONS<sup>^</sup>



■ Control  
■ LEVUCELL SC  
■ Average control

<sup>^</sup> Average of several studies

**Feed LEVUCELL SC Rumen Specific Live Yeast every day and fine-tune your herd to peak efficiency.**

# OPTIMISE PRODUCTION AND MAKE MORE MONEY!

**LEVUCELL SC** has been shown to improve feed efficiency, milk yield and meat production under rigorous performance trials and field assessments, specifically during challenging conditions. These include heat stress and other environmental factors that can negatively impact herd performance.

## YOUNG RUMINANTS



**MORE GROWTH**



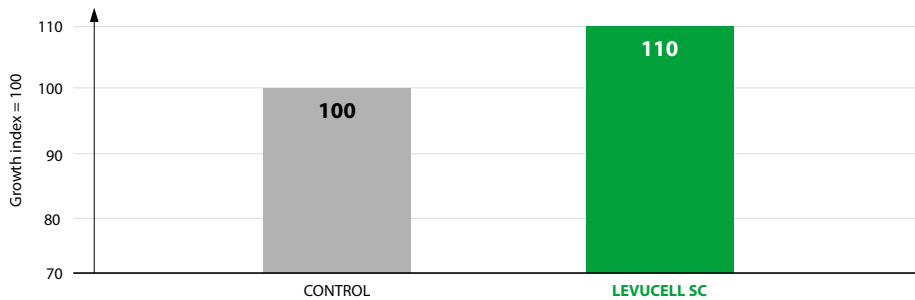
**MORE MONEY**

When provided to young ruminants in starter feeds before and after weaning, **LEVUCELL SC** improves feed intake and body weight – and growth homogeneity.



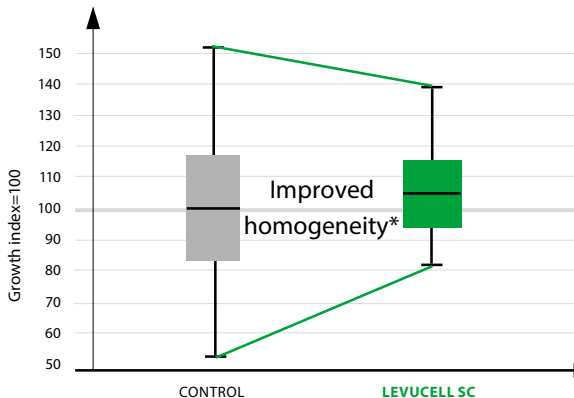
**ROI 5:1 with additional positive long-term consequences for future milk/meat production (Based on an average rearing cost of \$185)**

### ➔ LEVUCELL SC INCREASES GROWTH BY 10%<sup>1</sup> IN CALVES



<sup>1</sup> Average of multiple trials : USA UC DAVIS, 2005, , UK farms 2012, IRTA Spain 2015

### ➔ LEVUCELL SC IMPROVES POST-WEANING HOMOGENEITY OF GROWTH<sup>2</sup>



<sup>2</sup>IRTA, Spain, 2015

\*-43% of standard deviation of ADG; p<0.05

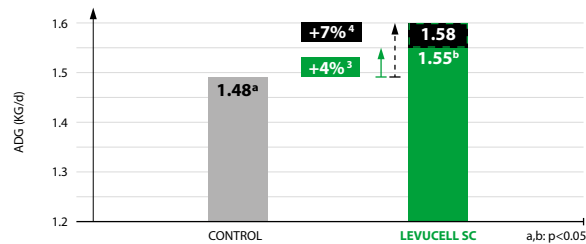
**Feed LEVUCELL SC Rumen Specific Live Yeast every day and fine-tune your herd to peak efficiency.**

# MEAT-TYPE ANIMALS



At each stage of beef development, **LEVUCELL SC** shows significant improvements in average daily gain and feed efficiency (+3%<sup>1</sup> to +6%<sup>2</sup>). It excels during rumen-challenging periods by improving visible signs such as eating behavior, nervousness and cleanliness.

## ➔ LEVUCELL SC IMPROVES AVERAGE DAILY GAIN (+4%<sup>1</sup> UP TO 7%<sup>2</sup>) IN BEEF CATTLE



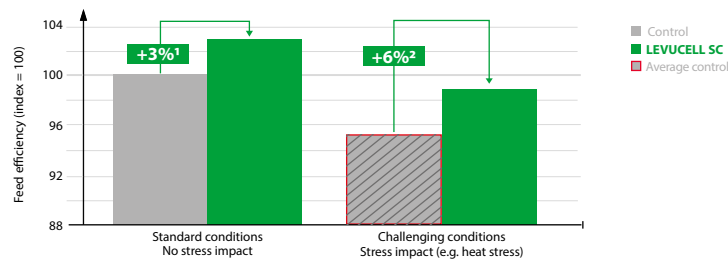
<sup>1</sup> Meta-analysis results (Erasmus & Leviton, 2009) performed in standard conditions

<sup>2</sup> Trials results performed under rumen challenged conditions



**ROI 3:1**  
Based on +0.07kg improvement in ADG at a \$2.50/kg LWT schedule

## ➔ LEVUCELL SC IMPROVES FEED EFFICIENCY (+3%<sup>1</sup>) WITH A HIGHER EFFECT (+6%<sup>2</sup>) IN CHALLENGING CONDITIONS



**MORE MEAT**



**MORE MONEY**

## LEVUCELL SC GIVES YOU MORE...



**MORE SCIENCE**

- Documented in more than 100 international independent scientific publications
- Validated through studies at leading research centers
- Unique coated and patented TITAN technology for best activity with pelleted feed



**MORE MILK AND MEAT\***

- Documented performance across all stages of production
- Up to 7% more milk
- Up to 6% more meat



**MORE MONEY**

- Get more power out of the rumen
- Improve feed efficiency: more milk and meat with same amount of feed.
- Improve profitability

\* Per unit of feed

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# THE RUMEN SPECIFIC LIVE YEAST THAT STAYS ALIVE EVEN IN PELLETTED FEED — THANKS TO TITAN TECHNOLOGY

**LEVUCCELL SC** can be used in all ruminants – dairy and beef cattle, rearing calves, goats, lambs and sheep – at the recommended feeding rate. There are two LEVUCCELL SC formulations which are adapted for different applications.

**Levucell SC 10**  
titan



## CONCENTRATED FORMULATION

with micro-encapsulation technology for pelleted-feed and pelleted-minerals.

**LEVUCCELL SC 10 TITAN** is a concentrated formulation with 10 billion CFU/g. It is a microencapsulated formulation, and patented technology. TITAN protects live yeast against the constraints of the feed production and ensures stability through storage.



## FEEDING RATE/ANIMAL/DAY

- Dairy cows: 1.0g to 2.0g\*
- Pre-weaned animals: 0.4g to 0.8g\*
- Beef cattle: 0.8g to 1.6g\*
- Small ruminants: 0.4g to 0.8g\*

\*Recommended feeding rate during challenging periods.

For any questions, check with your local representative.

**Levucell SC**  
Rumen Specific Yeast

Not all products are available in all markets nor associated claims allowed in all regions.

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