

Feed rate

Dairy cows: 25 grams/head/day


Beef cattle: 20 grams/head/day


Sheep & goats: 10 grams/head/day


Biotal SC acidease should be fed evenly across all the daily feeds. e.g. for beef cattle fed twice a day include 10 grams per head with each feed.


The Biotal SC Range

There are four uniquely formulated farm packs in the Biotal SC range, targeting the major ruminant feeding challenges.

 **SCDIGESTAID** to improve digestion

 **SCACIDEASE** to combat acidosis

 **SCTOXISORB** to reinforce detoxification

 **SCOXYCARE** to help manage stress

 **BIOTAL**

When you buy Biotal you get more than just a farm pack

Biotal's extensively researched, registered and globally proven rumen specific live yeast-based farm packs come with comprehensive technical support services to help you get the most from your forage, including:

- Forage analysis as a basis for effective diet formulation
- Advice on monitoring and managing rumen function
- Selection of the most appropriate farm pack based on your feeding challenges.

Together Biotal's unequalled technical support, targeted farm packs and crop and condition specific inoculants can help you utilise forage to deliver better performance.

farmpacks@biotal.com

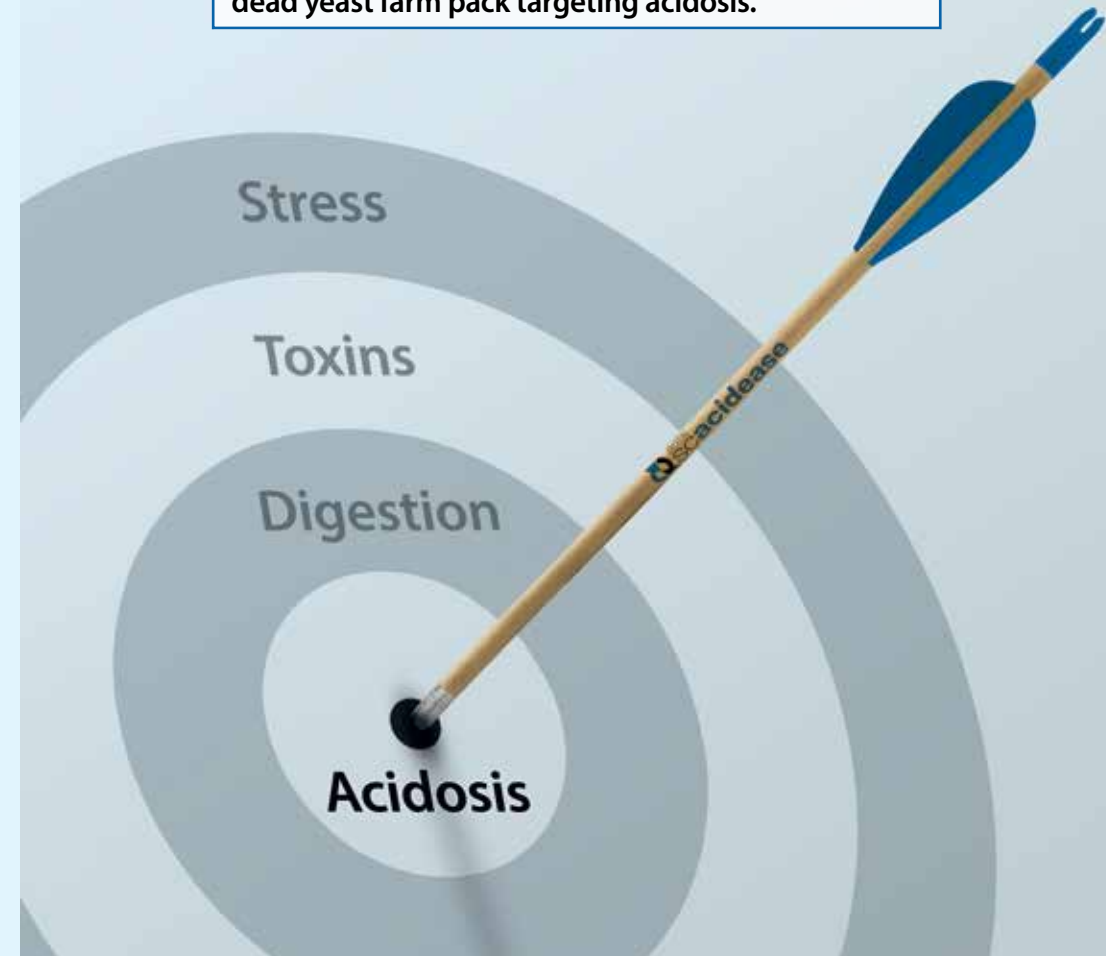
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 **BIOTAL**

 **SCACIDEASE**

A unique rumen specific live yeast and high quality dead yeast farm pack targeting acidosis.



LALLEMAND

Unleashing the value of your forage

Sub-clinical and clinical acidosis occur as rumen pH falls. The greater the fall and the longer low pH conditions remain, the more severe the consequences are on rumen health and performance.

Negative impacts of acidosis include:

- depressed appetite
- reduced rumination (natural buffer)
- poorer milk yield and quality
- depressed growth rates
- reduced reproductive performance

To prevent the negative consequences of acidosis, it is essential to minimise fluctuations in rumen pH. Biotal SC acidase can help achieve this in two ways:

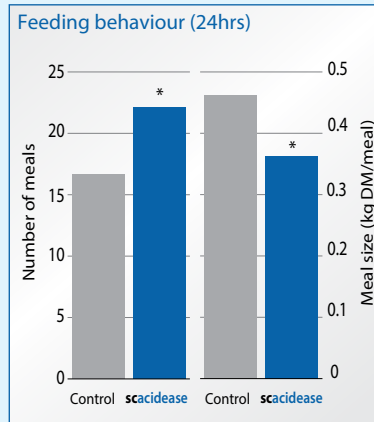
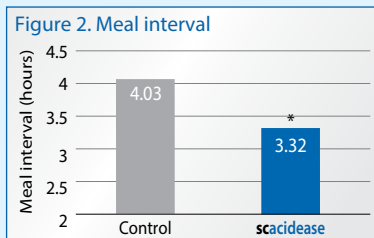
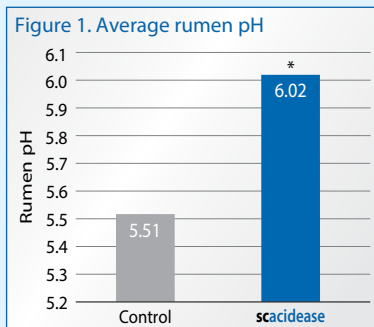
1. It increases the activity of the rumen bacteria that utilise lactic acid while reducing the activity of the bacteria that produce lactic acid, the main cause of a declining rumen pH.
2. It creates conditions that favour specific fibre degrading micro-organisms which improves fibre digestion and so promotes good rumen passage and regular feed intake which are essential in moderating rumen pH.



Biotal SC acidase reduces the extent and duration of low rumen pH

A study at IRTA, Spain found dairy cows fed Biotal SC acidase had significantly higher average rumen pH and spent significantly less time with a low pH (figure 1). Regular feed intake is good for rumen function and with Biotal SC acidase the time between meals was reduced by 30 minutes (figure 2).

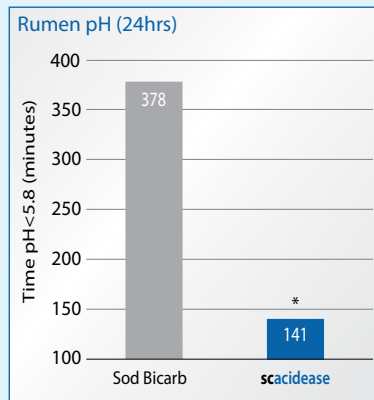
(Bach *et al.*, 2005), *P<0.05



Biotal SC acidase improves feeding behaviour

Regular feed intake is a sign of good rumen function and is essential to help moderate rumen pH. A study at INZO, France showed young bulls fed Biotal SC acidase ate smaller meals but more often resulting in a 7% improvement in feed conversion efficiency.

(Loncke *et al.*, 2012), *p<0.05



Biotal SC acidase is more effective than traditional buffers

Through cudging, cattle produce as much as 3kg per day of sodium bicarbonate to buffer rumen pH. Adding extra bicarbonate to the diet is a common approach to try to reduce acidosis. A study at Vermont, USA showed that feeding Biotal SC acidase resulted in a higher average pH and less time at low pH than supplementation with 170 grams/day of bicarbonate. Feed efficiency was also improved by 4.5%.

(de Ondarza, 2011), *p<0.05



About Biotal SC acidase

Containing rumen specific live yeast *Saccharomyces cerevisiae* CNCM I-1077 and high quality dead yeast, a premium source of amino acids and B-vitamins to the rumen microflora, Biotal SC acidase includes 50% cereal flour carrier to ensure even distribution. It is supplied as a 20kg farm pack.



Targeted Yeast Farm Packs

Specific problems need targeted solutions which is why Biotal has developed a range of yeast farm packs to help you tackle your feeding challenges cost effectively for optimum results. The Biotal SC range includes four individual products with carefully chosen ingredients to address the main areas that can disrupt ruminant performance including rumen function, wider digestive health and total anti-oxidant status.

BIOTAL SC digestaid to improve digestion

BIOTAL SC acidease to combat acidosis

BIOTAL SC toxisorb to reinforce detoxification

BIOTAL SC oxycare to help manage stress

All Biotal SC farm packs are supplied in 20kg bags.

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Biotal SC Yeast Farm Packs

Your feeding challenges need a targeted approach

BIOTAL SC digestaid

BIOTAL SC acidease

BIOTAL SC toxisorb

BIOTAL SC oxycare



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Biotal Yeast Farm Packs

The foundation of profitable ruminant production is a healthy and efficient rumen.

Anything that disrupts the rumen will negatively impact performance and ultimately profitability.

All Biotal yeast farm packs include an extensively researched and globally proven rumen specific live yeast with added ingredients carefully chosen to tackle the main ruminant feeding challenges.

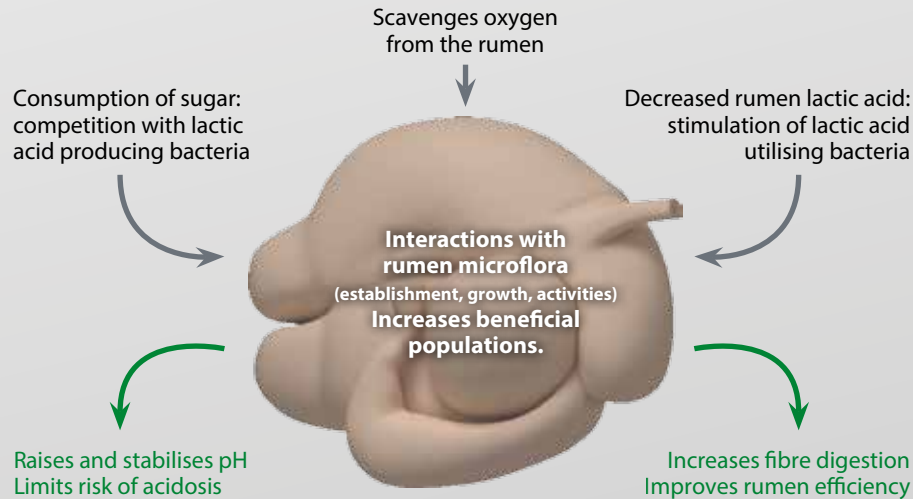
Biotal SC: Rumen specific live yeast

Live: a natural live yeast (*Saccharomyces cerevisiae* CNCM I-1077), metabolically active to enhance rumen function.

Rumen specific: selected among thousands of strains for its capacity to enhance rumen function; its effectiveness has been validated in extensive trials at leading research institutes.

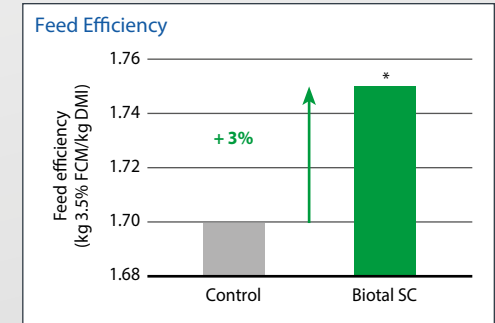
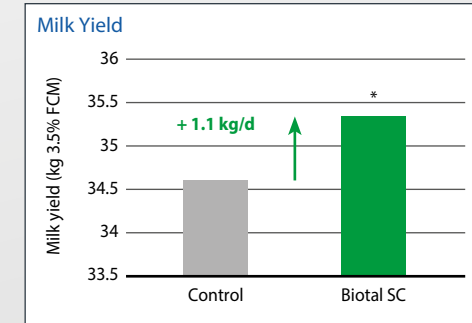
EU registered: for dairy cows, beef cattle, sheep, goats and horses.

Biotal SC: How it works



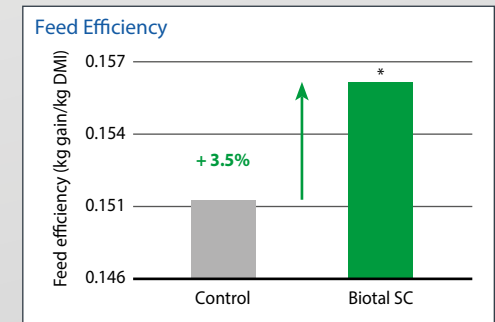
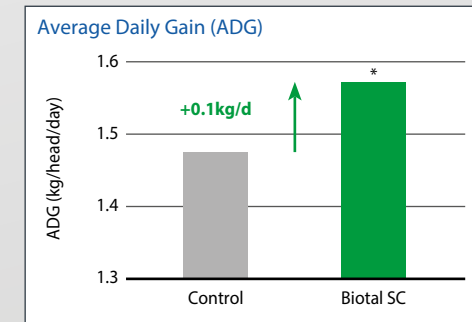
Biotal SC: Extensively researched and globally proven

Dairy cows



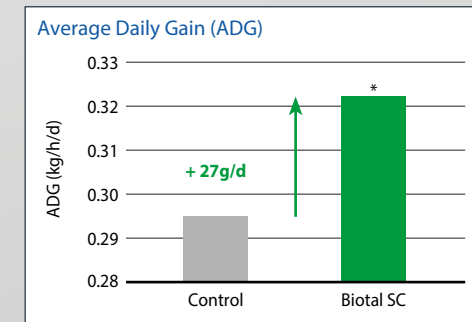
(de Ondarza *et al*, 2010: Meta-analysis - 14 trials, 1615 cows) *P<0.05

Beef cattle

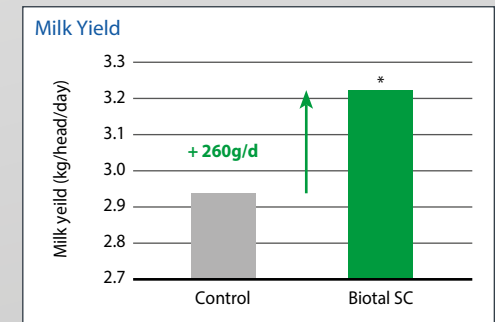


(Erasmus *et al*, 2009: Meta-analysis - 15 trials, 1875 cattle) *P<0.05

Sheep and Goats



(Average of 5 trials, 1092 lambs) *P<0.05



(Average of 10 trials, 1099 goats) *P<0.05