



novonesis

Cattle biosolutions



# Bovacillus<sup>TM</sup>

Research indicates that daily feeding of Novonesis' Bovacillus<sup>TM</sup> probiotic to beef and dairy calves helps support:

- Feed efficiency and healthy growth
- A healthy digestion in young animals
- Uniformity among calves for a long-term success

Bovacillus<sup>TM</sup> probiotic is heat-stable, resilient and versatile, making it easy to use across a wide range of applications fed to calves, including starter supplements and milk replacers.

## Your challenges

Successful cattle operations depend on proper health, nutrition and management of calves. But calves face multiple challenges, including weaning, transportation, social changes, diet shifts and physiological changes, all of which can lead to poor feed utilization and lower performance in the future. Proactively managing challenges and formulating the best feed for a strong start are critical to profitable and sustainable business.

## Your Novonesis biosolution

Add Bovacillus™, a resilient dual-strain probiotic, to your toolbox and support healthy digestion, health and growth in your calves.

### Key benefits:

- **Supports calf health:** Helps establish a robust microbiome in challenging conditions
- **Enhances nutrient digestibility:** Produces enzymes that break down fiber and starch, helping achieve feed efficiency
- **Easy to use, versatile application:** Can be added to starter supplements, milk replacers, pasteurized milk and the most common feeds for calves
- **Supports performance:** Helps achieve desired average daily gain and feed conversion in both pre-weaning and post-weaning calves
- **Eases the transition:** Aids digestion and nutrient absorption during the shift from milk to solid feed

### Key features:

- **Dual-strain probiotic:** Contains *Bacillus licheniformis* and *Bacillus subtilis*, carefully selected for their digestive modes of action
- **Heat-stable and resilient:** Maintains effectiveness in various feed types and can withstand pelletizing
- **Backed by research:** Demonstrated benefits in university trials for both pre-weaning and post-weaning calves

## How biosolutions work

The role of biosolutions in supporting calf health.

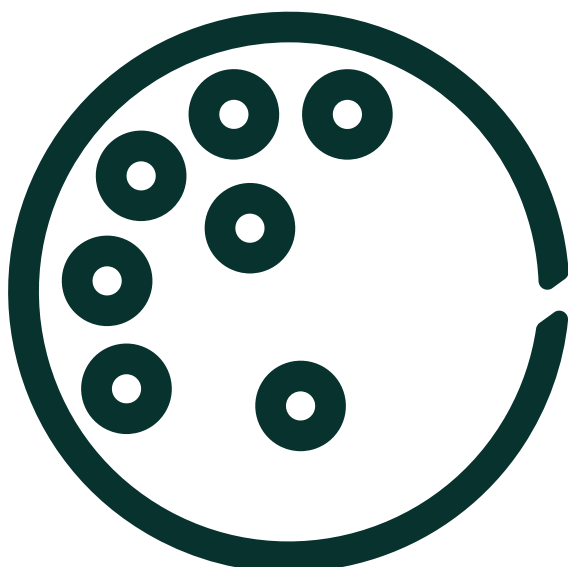
Probiotics like Bovacillus™ offer various benefits through several well-defined modes of action:

### Interaction with other microbes

Effective *Bacillus*-based probiotics have been shown to interact with other microorganisms directly or by competing for nutrients or adhesion to epithelium. Incorporating Bovacillus™ probiotic into your toolbox can help support your young calves as they face various challenges in their environment.

### Interaction with feed nutrients

In recent digestibility trials, Bovacillus™ probiotic was shown to improve fiber and starch degradability of different forages and concentrate feeds.



**Study 1**  
**+ 8.9%**  
units improvement  
on fiber  
digestibility

**Study 2**  
**+ 7.7%**  
units improvement  
on fiber  
digestibility

**Study 3**  
**+ 5.9%**  
units improvement  
on fiber  
digestibility



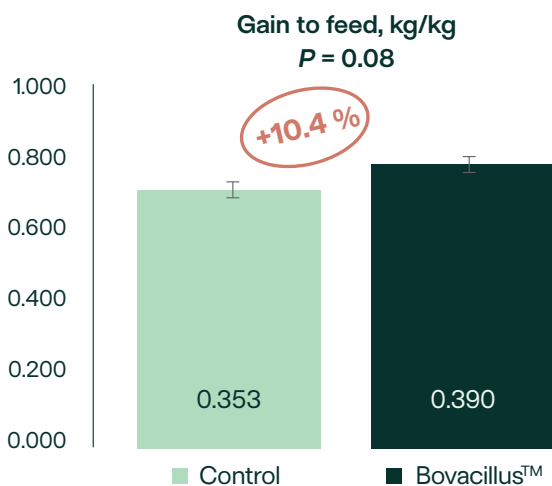
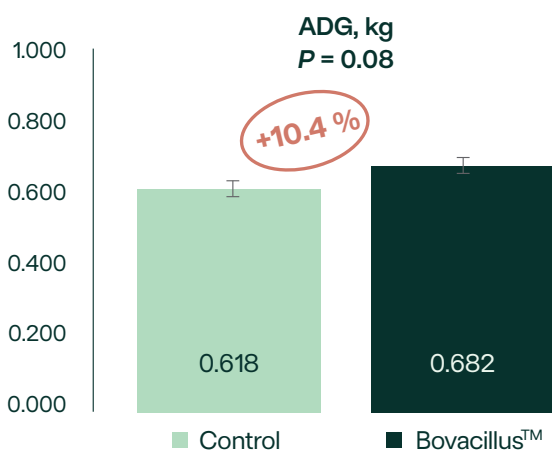
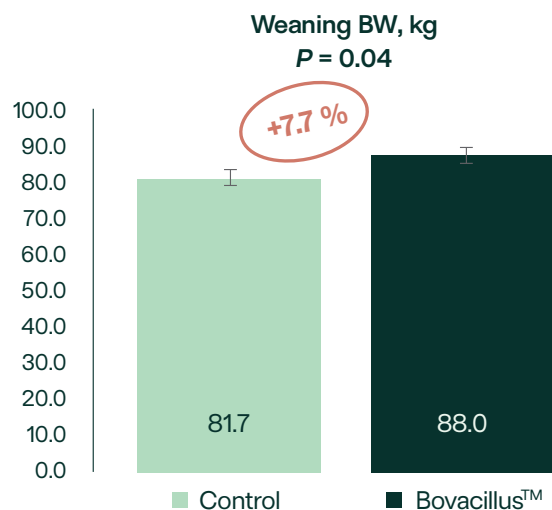
**+ 5.7%**  
units improvement  
on starch digestibility

**Study 2**  
**+ 6.5%**  
units improvement  
on starch digestibility

**Study 1.** Oliveira et al. (2016); **Study 2.** Pan et al. (2022);  
**Study 3.** Cappellozza et al. (2023).

## Your results

Studies show that Novonesis' Bovacillus™ probiotic supports calf health, digestion and healthy growth. In a trial with 60 female calves, those fed Bovacillus™ product had higher weaning body weight and tended to have better average daily gain and feed efficiency. An *in vitro* digestibility trial confirmed that its probiotic strains enhance fiber and starch breakdown for better nutrient absorption. These results indicate its effectiveness in supporting normal gut health and overall calf performance.



## Product specifications



### Composition:

Scientifically selected strains of *Bacillus licheniformis* and *Bacillus subtilis* mixed in calcium carbonate

### Form:

Powder; concentration of active ingredients minimum  $3.2 \times 10^9$  CFU\*/gram.

\*Colony forming units

### Packaging:

20 kg bags (availability and sizes may vary in your country).

### Storage:

Store in a dry and cool area to maintain stability during shelf-life. Keep the product in the original tightly closed packaging except when dispensing the product.

### Shelf life:

24 months from the date of manufacturing when stored as specified.

### Directions for use:

Calves: 0.5 - 1 g per calf per day in the feed or milk replacer.

For more information, please contact your local representative or reach us at [novonesis.com](http://novonesis.com)

# Novonesis is leading the era of biosolutions.

By leveraging the power of microbiology with science, we transform the way the world produces, consumes and lives. In more than 30 industries around the world, our biosolutions are already creating value for thousands of customers and benefiting the planet. Our 10,000 people worldwide work closely with our partners and customers to transform business with biology. Let's better our world with biology.

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