

BioBoost



BioBoost's micro-encapsulated, multi-strain probiotic paste promotes immunity, recovery and improves digestion.

- Convenient and fast oral treatment paste with unprecedented strength.
- BioBoost delivers powerful probiotics and vitamin E.
- Billions of CFU/g (Colony Forming Units).
- Potent and natural support for immune function in cattle.
- Ideal for animals of any age that are sicked or stressed.
- Extended shelf-life.
- 300g requires an applicator.



DOSAGE

- 5g dose for calves, placed on their tongue



"Every calf we kept was given a dose of the BioBoost paste on their tongue at birth. If any calf didn't seem 'right' at any point, we'd give them a double dose of the paste as a precaution. It was so simple, and it worked really well as an early preventative treatment that was non-invasive, effective and easy to do."

— Annie Newton, northern Victoria.



For more information – 1800 666 269 • daviesway.com.au

BioBoost is an oral probiotic treatment paste, which is as valuable for newborns as it is for sick or stressed animals.

WHY?

Because 70-80% of an animal's immune function is driven from its lower gastrointestinal (GI) tract, getting the right concentrations of probiotics to that sweet spot is key.

To that end, micro-encapsulated probiotics are carried in BioBoost in unprecedented strengths, allowing them to be distributed to the rumen and abomasum where they come to life – providing direct competition for pathogenic bacteria.

Research confirms that supplementing the rumen with probiotics accelerates calf growth: it directly stimulates rumen development, and reduces the need for antibiotic intervention.

Combined with extreme levels of good bacteria, yeast rumen pH stabiliser, and vitamin E (anti-oxidant), BioBoost has been a popular addition to Daviesway's range.

Probiotic supplementation that includes yeast, maintains an immature rumen pH in the neutral range of 6-7.

That pH of 6 to 7 is critical, because on transfer to the abomasum, the same bugs die in the pH<2 environment, releasing essential amino acids for the calf's growth. This is why calves on BioBoost appear healthier – because they are. The ammonia to amino acid pathway is a net contribution of energy for the calf.

WHEN IT GOES WRONG

When rumen pH drops below 5 plant-based nitrogen is no longer consumed by microflora to build amino acids, rather it is directly absorbed to blood as ammonia, converted to ureic acid by the liver, and excreted.

This is a net energy drain on the calf. On top of that, the rumen acidifies, thus killing beneficial organisms and allowing pathogenic organisms to thrive – and potentially kill the calf.

POTENCY PARAMOUNT

BioBoost's potency is important because of the rapid transit time through the immature rumen. With that in mind, BioBoost was deliberately formulated 40 times stronger – with billions of colony forming units (CFUs) – to give calves the level of protection modern calf-rearing facilities demand.

"The objective of using probiotics is to reduce their stress, because a calf's wellbeing translates directly into stabilised weight-gain," Daviesway/DASCO's Chemist, Hamish Hunt said.

"It also reduces costs in terms of intervention with drugs. Both of these things are fundamentally important in terms of the business."

BIOBOOST – ACTIVE INGREDIENTS

Host-specific micro-encapsulated probiotic bacteria:

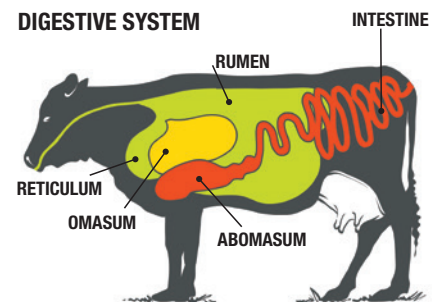
- Host-specific bacteria have specific key receptor sites for each host species that allow for more efficient attaching to the epithelium in the small intestine.
- Micro-encapsulation ensures passage of the bacteria through the rumen to the lower GI tract.

Bacillus Subtilis:

- Bacillus subtilis is a very hardy spore bacteria that has been extensively studied on a genetic and functional level.
- There are several probiotic products in the pharmaceutical and agricultural markets that use this powerful probiotic, and it is well-known for its efficacy.

Active live yeast:

- The live yeast formulated into BioBoost – *Saccharomyces cerevisiae* (SC) – has been reported to have positive effects both directly and indirectly on the immune system. Its subsequent biomarkers helps ease the impact of stress and disease.
- SC has also been reported to simultaneously enhance growth and performance because of increased dry matter intake and the daily weight gain resulting from that.
- It has also been shown to be a very strong rumen control agent – allowing the removal of antibiotic-based rumen control agents.
- SC also contains B vitamins, amino acids, minerals and vitamins.



DIRECTIONS FOR USE

Apply BioBoost orally on the tongue, or mix into feed at the following rates.

- **COWS:** 10 to 15 grams for off feed cows. 5 grams at calving, times of stress or illness.
- **CALVES:** 5 grams at birth, times of stress or illness and as a re-inoculant post antibiotic therapy.
- **LAMBS/KIDS:** 2.5 grams at birth, times of stress or illness.