

Terragen Probiotic for Ruminants

High-Performance Probiotics



Terragen Holdings Limited

— About Terragen

We are an innovative agricultural biologicals company changing the face of global agriculture.

We give farmers the natural advantage by providing a sustainable and chemical-free way to farm. We increase your farm's productivity and provide a positive return on investment in an environmentally sustainable manner.

In a world where modern farming is under increased pressure to protect the land for future generations, meet and exceed regulations, and operate profitably, Terragen reduces the industry's reliance on chemical-based products.

Our scientifically proven products amplify nature to improve animal wellbeing, soil quality and crop growth.



— FAMI-QS Certified

FAMI-QS is a globally recognised accreditation scheme that ensures specialised feed supplement safety.

The Code of Practice, led by the Feed Ingredients and Additives Association of Australia (FIAAA), covers requirements on good manufacturing processes, hazard control and quality assurance.

This accreditation is testament to Terragen's optimal bioprocessing and product quality standards. Our aim is to ensure our products are safe to use and are of the highest standard, from manufacturing to delivery.

The FAMI-QS certification ensures the feed additives you use are ones you can trust.



—What are probiotics?

Probiotics are live microorganisms that, when administered in adequate amounts, confer a health benefit on the host.

These naturally occurring microorganisms, including bacteria and yeasts, play a vital role in digestion, immunity, and performance - benefiting both humans and animals alike.

As the connection between gut health and overall vitality gains global recognition, probiotics are transforming livestock farming. By promoting stronger immunity, improved digestion, and enhanced nutrient absorption, probiotic solutions help reduce reliance on antibiotics and synthetic chemicals, paving the way for a more sustainable, eco-friendly future in agriculture.

Join the movement toward healthier animals, improved productivity, and a thriving ecosystem with the power of probiotics.



— How can **Probiotics** help with **Livestock Management**?



Probiotics offer several benefits for livestock, enhancing their overall health and productivity.

Gut Health

Probiotics help maintain a balanced gut microbiota, which is crucial for efficient digestion and nutrient absorption. This can lead to better feed conversion rates and overall growth.

Productivity

Probiotics have been shown to improve a range of productivity markers, including carcass yield and quality in beef cattle and sheep, milk yield and quality in dairy cows and liveweight gain in calves.

Disease Prevention

By promoting a healthy gut environment, probiotics can help prevent the colonisation of harmful pathogens like Salmonella and E. coli, reducing the incidence of disease. They can also support the animal's immune system.

Financial Benefits

As probiotics have been shown to increase productivity, these often lead to a greater return on investment for producers.

Antimicrobial Stewardship

With the growing concern over antibiotic resistance globally, probiotics may play a part in improving overall health and, in turn, a reduction in the reliance of antimicrobials.

Terragen Probiotic for Ruminants

The essential probiotic for superior results



Terragen Probiotic for Ruminants is a **live microbial product** proven to support gastrointestinal health and **improve productivity** in beef and dairy cattle, calves and lamb.



Beef



Dairy



Calves



Lamb

How it works

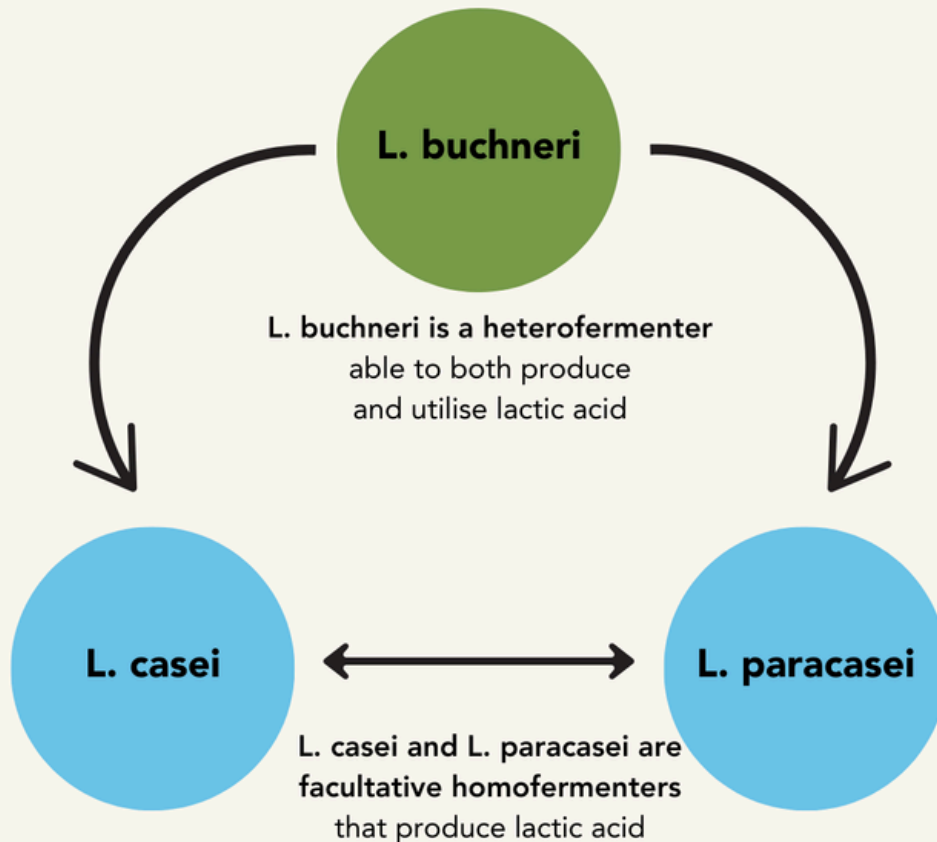
Our proprietary blend of microbes contains three strains of *Lactobacillus* bacteria:

L. casei
L. paracasei
L. buchneri

These strains optimise feed digestion, increasing the nutrient availability to the animal. During this process, they produce lactic acid, helping to give them a competitive advantage against pathogenic bacteria. However, too much lactic acid can be detrimental.

L. buchneri is key to ensuring this fermentation process is controlled as it utilises excess lactic acid and converts it into energy for the animal to use.

Our research has also shown a number of other beneficial products can be produced by these bacteria, including vitamins, anti-inflammatories, antibacterial compounds, fatty acids and amino acids.



Discover the Benefits

Just 1g delivers a minimum 13 billion live probiotic bacteria

Mixes directly into feed, dissolves in water or milk

Easy to use, resealable pack in sizes of 500g, 250g, 100g

No withholding periods

Extended shelf life up to 2 years**



Treatment	Dosage	
	Amplify	Recommended*
Dairy/Beef	0.5g/hd/day	1g/hd/day
Calves	0.25g/hd/day	0.5g/hd/day
Lamb	0.25g/hd/day	0.5g/hd/day



*Recommended dose supports optimal productivity in periods of growth, dietary change or stress.

**When stored at 2-8 degrees Celsius

—Benefits for Beef

A daily dose of Terragen Probiotic for Ruminants in beef cattle is scientifically proven to:

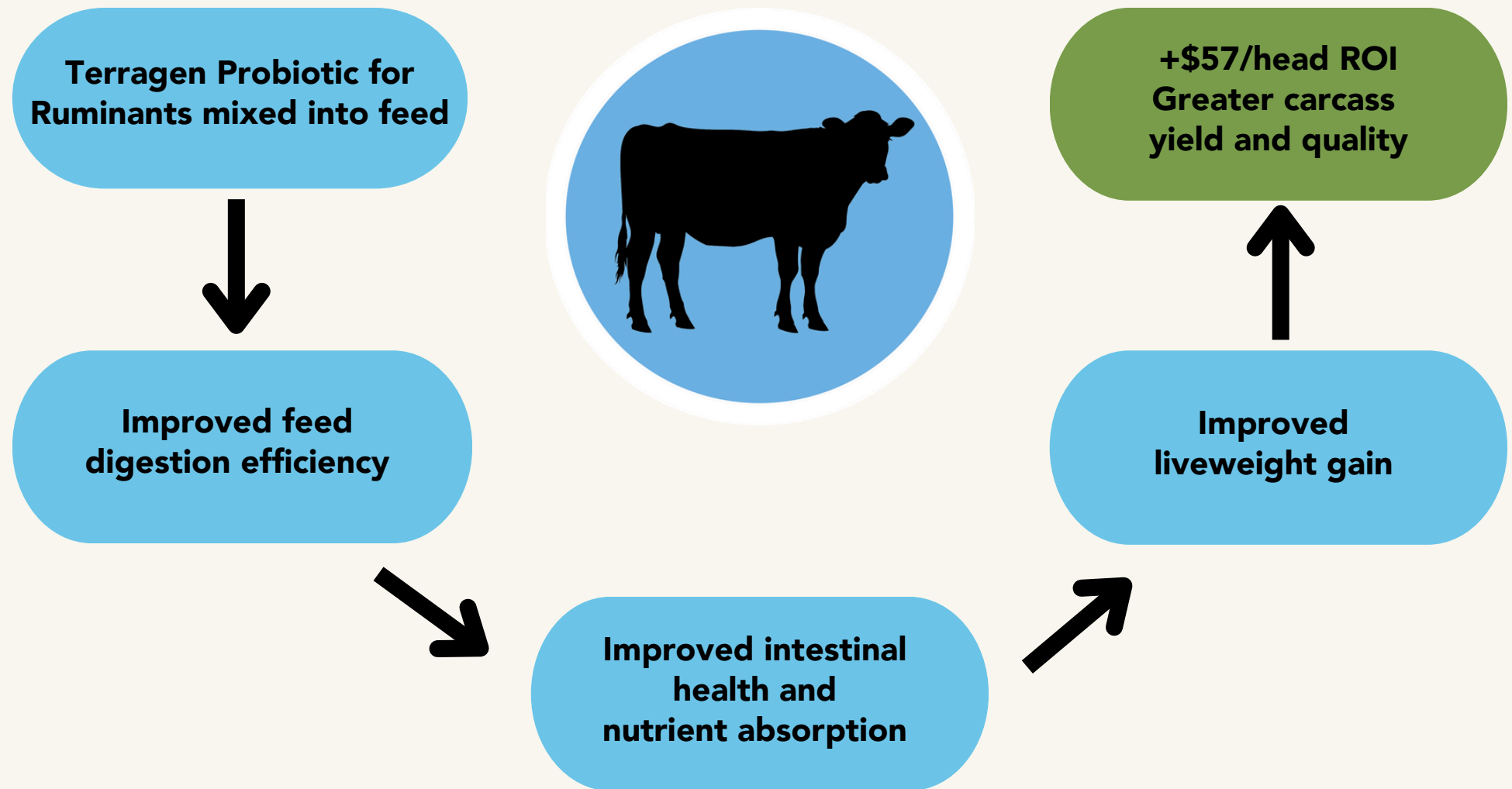
- Increase Average Daily Gain by up to 4.8%
- Improve Feed Conversion by up to 12.8%
- Improve marbling scores by up to 7%

+\$57 more beef per carcass*

*based on Teys/Angus/MSA grid



__Probiotics in Beef Cattle





—Benefits for Dairy Cows

A daily dose of Terragen Probiotic for Ruminants in dairy cows is scientifically proven to:

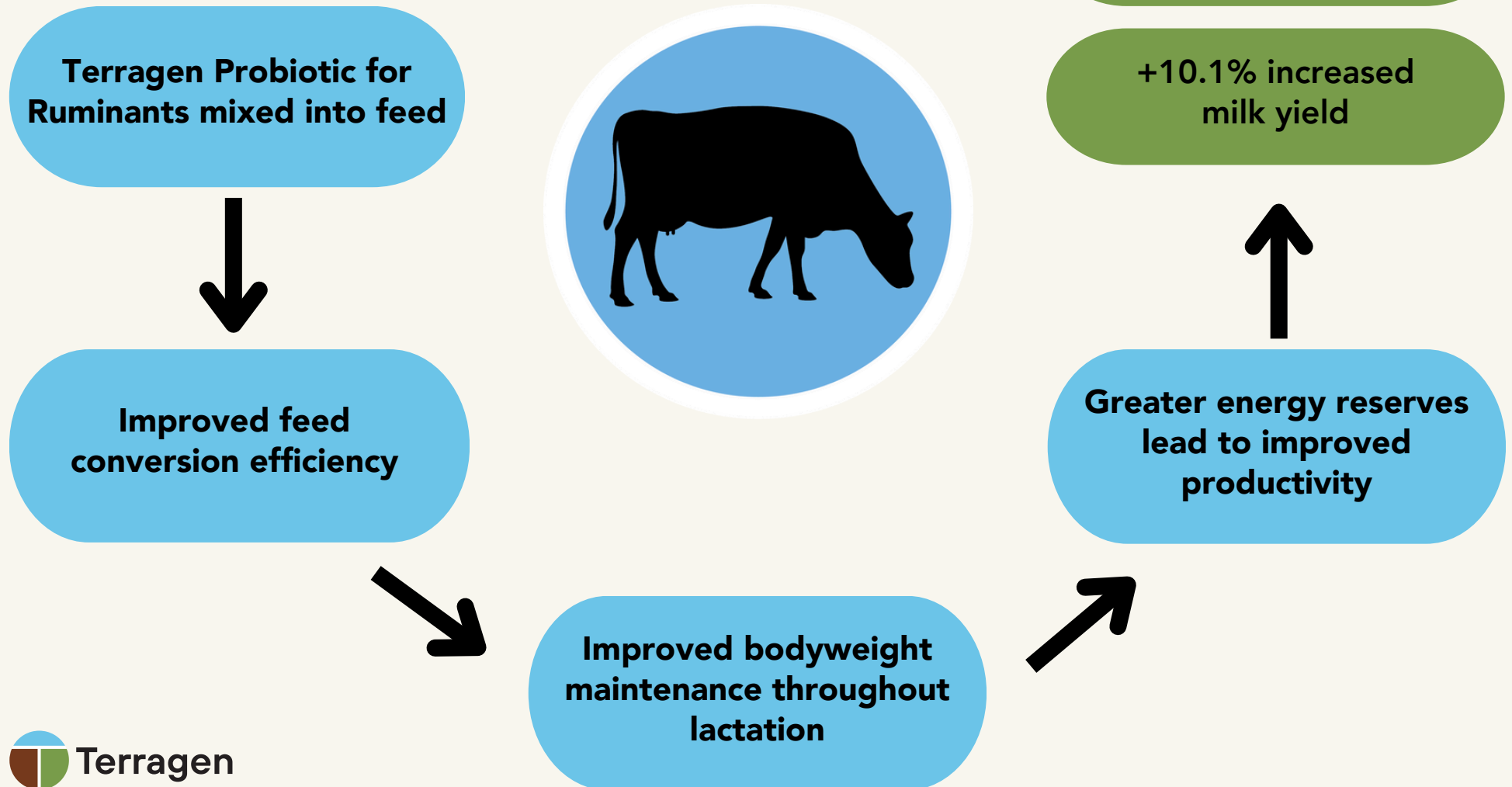
- Improve milk yields by up to 10.1%
- Increase liveweight during lactating by up to 21%
- Methane intensity reduced by 7.5%
- Promote herd health and longevity

\$500 net benefit per cow per lactation*

*based on milk price of \$8/kg MS and 10% increase in milk yield



__Probiotics in Dairy Cows



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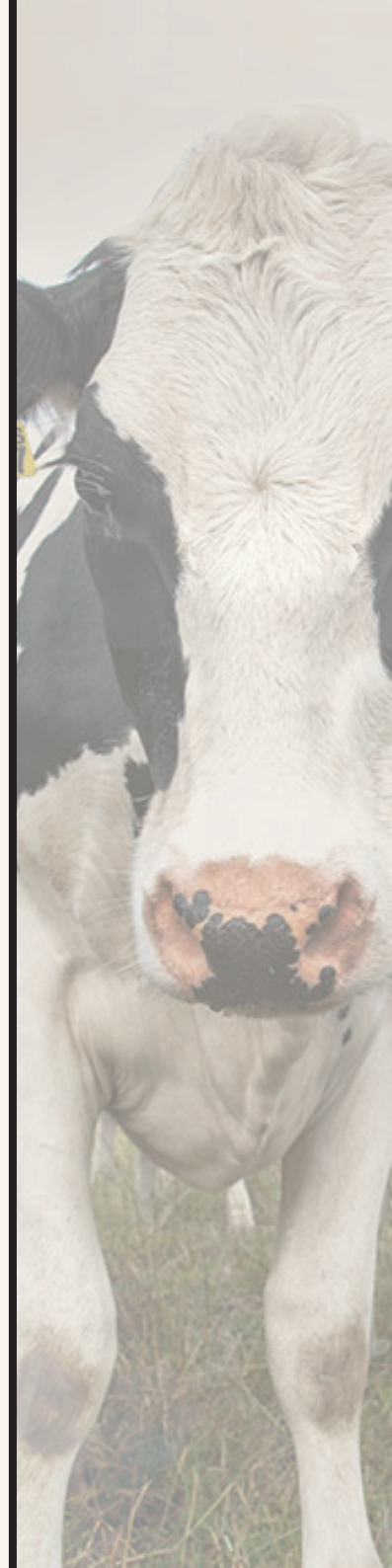
“Dairy producers rely on lactating cows to provide high-quality milk as a source of farm income, and to produce calves which will become future herd members. This is metabolically demanding for the herd, so ensuring they get optimal energy from their feed is paramount to maintaining health and longevity, optimising milk production, and securing long-term profitability for your farm.

Cows on *Terragen Probiotic for Ruminants* are able to gain more liveweight during their lactation, using this as an energy resource for improving productivity.”

DR. TOM BAYES

BVetMedSci BVM BVS (Hons)

Technical Veterinarian, Terragen





— Benefits for Calves

A daily dose of Terragen Probiotic for Ruminants in calves is scientifically proven to:

- Transition calves onto solid feed sooner
- Wean calves up to 10 days earlier
- Improve liveweight gain by 6kg on average

\$40 net saving per calf

*through earlier weaning



__Probiotics in Calves

Terragen Probiotic for Ruminants mixed into milk



Rumen colonised with beneficial bacteria, improving gut health and nutrient absorption

These help to prevent harmful bacteria



Advanced rumen development



+\$40 savings per calf through 10 days earlier weaning



Greater liveweight gain



Solid feed started sooner



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“We know that productive cows begin life as healthy calves, and therefore the job of calf-rearing is incredibly important.

By starting your calves on *Terragen Probiotic for Ruminants* from birth, you are ensuring their gut is populated with ‘good’ bacteria. These bacteria improve feed digestion, ensuring your calves get the most nutrients from their diet, improving growth rates and enhancing gut development, allowing for earlier weaning.”

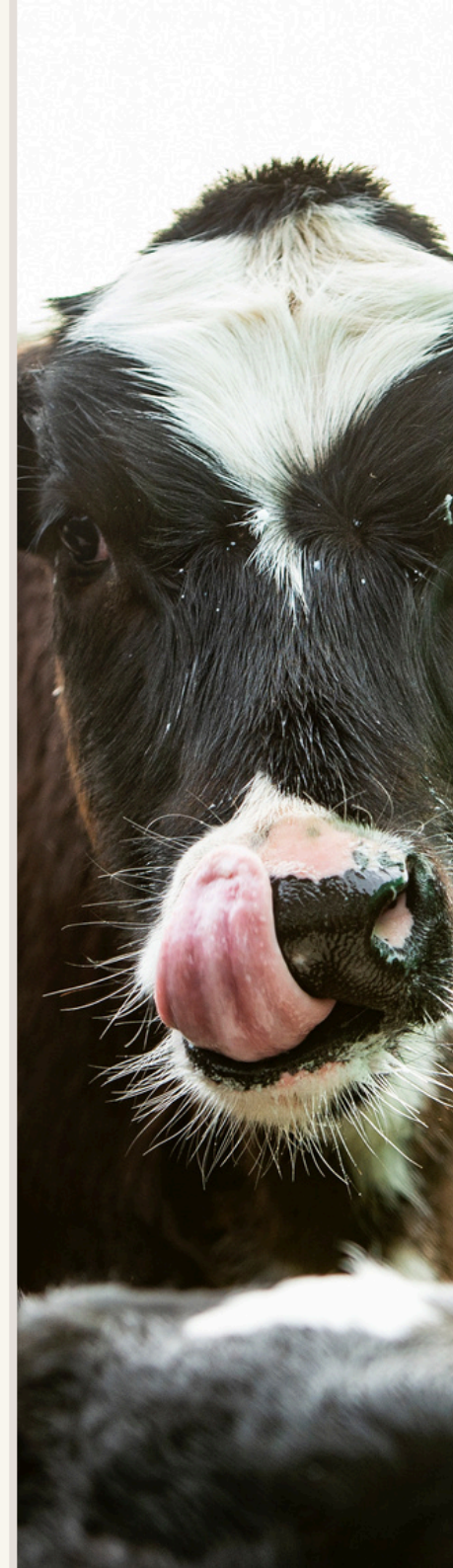
DR. TOM BAYES

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—Benefits for Lambs

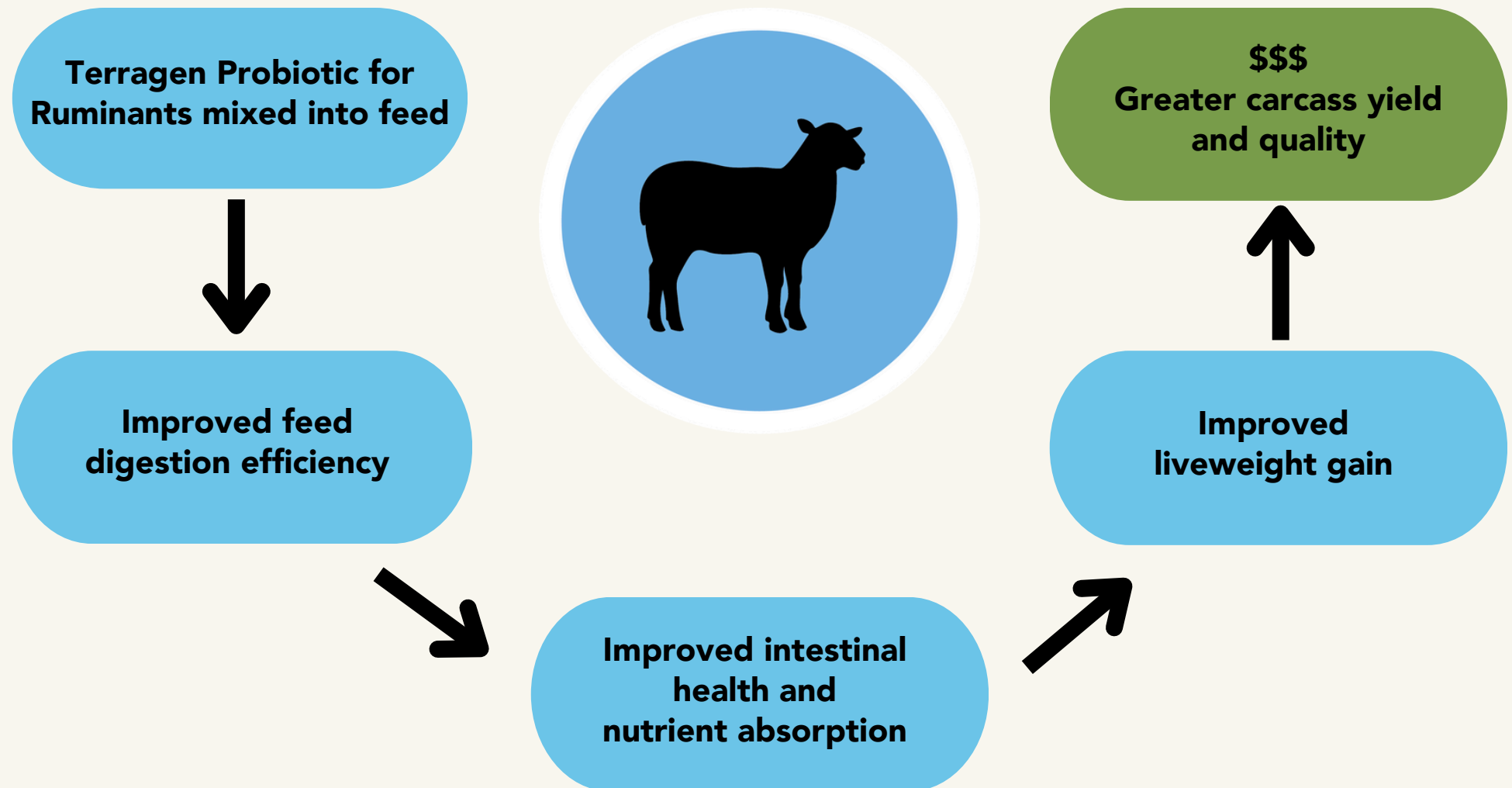


A daily dose of Terragen Probiotic for Ruminants in lambs is scientifically proven to:

- Increase Average Daily Gain by up to 24%
- Increase liveweight gains by up to 25%
- Reduce methane intensity by up to 30%



__Probiotics in Lambs



Testimonials

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Prof. Jane Quinn, Professor of Veterinary Physiology & Gubali Institute Program Lead for Agricultural Innovation

“The novel Terragen dried bioactive supplement, *Probiotic for Ruminants*, at the higher concentration, produced a lift in both production and carcass performance in steers fed on a traditional 110-day grain-fed program. These results show significant promise for the Terragen Probiotic for Ruminants supplement to increase feedlot cattle performance on short or mid feeding programs.”

Nathan Chilcott, Tasmania

“With my cows on Terragen Probiotic, my cell count has improved from 250,000 to 150,000. I’m getting better feed conversion out of them; they’re eating less grass and producing more milk.”

Deb Monson, Prime Value Dairy Trusts, Tasmania

“We used Terragen Probiotic last year and found a significant reduction in illness across my calf pens. As well as supplementing my dairy calves, heifers and beef with Terragen Probiotic, I used it on my bobby calves – which has historically been a problem area – and did not have as much illness in them compared to recent years. Within the first two days, I noticed the calves were eating more and they definitely gained weight.”

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— Where to buy

AVAILABLE AT YOUR LOCAL RURAL RETAILER



Find your local stockist at terrigen.com.au/where-to-buy/

YOUR LOCAL TERRAGEN REPRESENTATIVE

**Northern Victoria
+ NSW, QLD**

Chris O'Callaghan
0418 203 509

Western Victoria

Peter Furphy
0488 414 714

Gippsland

Tom Bayes
0477 874 509

SA, TAS

Brad Toy
0461 393 145



