

REVOLUTIONISING CALF REARING

PROBIOTIC REVOLUTION



The two major benefits farmers are getting with Calf Xtreme are:

- Superior growth of calves - especially with the ability to feed high rates of colostrum and milk.
- Improved calf health.

Superior growth of calves - especially when high rates of colostrum and milk are being fed.

In their second year of using Calf Xtreme many farmers have increased the volume of milk they are feeding their calves.



"Calf Xtreme gave me the confidence to feed more milk to my calves. I started once a day feeding earlier. By 3 weeks of age they were getting just over 6 litres twice a day. Extremely impressed with how these calves are going."
James (Warea)

"This year we gave our calves as much milk as they wanted to drink. With Calf Xtreme they were drinking 5l TAD then 8l OAD. No sign of nutritional scours when this photo was taken. These calves were under 25 days of age."
Diane (Hawera)



"The oldest calf in this photo is 48 days old and half the mob is over 100kgs. This is the second year using Calf Xtreme and I got to a higher rate of milk than I have ever used."
Stu (Edgecombe)

Why does Calf Xtreme allow us to feed high rates of milk without getting nutritional scours?

Milk goes down the oesophageal groove, by passing the rumen going directly to the abomasum. This is where milk is digested but the abomasum of a newborn Friesian calf only has the capacity to hold 1.2 litres of milk. The rest back-flows into the rumen where it can cause digestive upsets. With traditional calf rearing systems we try to avoid nutritional scours by restricting the calf's intake but this means we are also restricting their genetic ability to grow. The specific strain of live yeast in Calf Xtreme helps stabilize the rumen at high volume milk intakes and directly stimulates cellulose digesting bacteria and appetite. It also allows the 5 digestive enzymes in Calf Xtreme to help digest meal, hay and grass.

What are the benefits of growing calves fast from a young age?

- Extra heifer milk production. In a University of Illinois trial (Dracley et al.) there was a 10% increase in protein from first lactation heifers that had been grown faster at a young age. After weaning, weights for the two groups of calves were equalized so there was no difference in calving live-weight. The researchers concluded that the results in terms of extra heifer milk production will be most pronounced when calf growth rates are accelerated from birth to 3-5 weeks of age. Other studies show that this is because calves are laying down more tissue for future milk production at a very young age.
- Labour savings with once a day feeding from an earlier age. Because of improved digestion with Calf Xtreme in the rumen, good consumption of meal, hay and grass is being achieved at relatively high rates of once a day feeding of milk.
- Earlier weaning. If calves are initially fed a high rate of milk with no digestive upsets they will simply grow faster, reaching weaning weights earlier. Providing grass and meal consumption is adequate there should be no post weaning check.



"Weighed the oldest calves today. Weaned 120 at 72kgs, going onto 2kgs of meal. They were on 4l milk powder and smashing consistently 1.5kg meal all the way through. Magic result and we are thrilled with your product."
Brandon (Edgecombe)

Improved post weaning growth rates. If there is better digestion in the rumen and we don't get a digestive upset then we believe there is improved rumen development and calves grow faster after weaning off milk.



"I am amazed at how my autumn born calves have grown since weaning. They look like yearlings but are only 5 months old at the time of this photo was taken! They were 251 kgs when we weighed them before going out to grazing at about 8 1/2 months of age."
Doug (Te Awamutu)

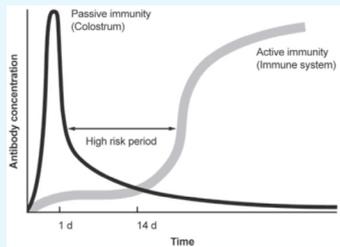
Here is the comment from a vet on an autopsy done on a heifer fed the product in Brisbane. This heifer dressed out at 250 kgs at 14 months



"The papillae in the rumen were larger and thicker and better developed for a young ruminant than otherwise be expected. Enhanced rumen development and greater surface area of the papillae leads to improved absorption capacity from the rumen."
Robyn (Brisbane vet)

Improved calf health

Calf Xtreme contains 5 selected strains of micro-encapsulated probiotic bacteria. For health challenges we recommend using Calf Xtreme Plus because it contains 4 times the bacterial dose/gm. Because the pro-biotic bacteria are micro-encapsulated they can pass through calves stomachs undigested to get to the lower gastrointestinal (GI) tract. Here they proliferate and it is in the lower GI tract where 75 – 80% of all mammals' immune function arises. Daily seeding of these bacteria are needed to inhabit the GI tract and proliferate, thereby helping to exclude pathogens and boost the immune system. Initially a calves protection against disease comes from antibodies contained in their first drink of colostrum. This is called passive immunity because the calf didn't produce these antibodies. This immunity fades rapidly and there will also be disease challenges that are not covered by antibodies in colostrum. Calf Xtreme Plus is fortified with a very strong dose of bacteria to boost a calf's own immune system in these situations. This is called active immunity.



"I have been rearing calves now for 30 years and this is the first year we have never had to use electrolytes. We haven't had a sick calf and haven't lost a calf! We have been feeding 6 litres once a day. This 6 week old mob is close to weaning off milk." Linda (Te Awamutu)

While Calf Xtreme will help overcome low level disease challenges, if your calves get sick while on Calf Xtreme we recommend the following steps:

1. Analyse which disease your calves have and treat as your vet recommends. Note: Because our bacteria are micro-encapsulated they are designed to be protected from antibiotics.
2. Use Calf Xtreme Plus with milk in once a day feeding, with electrolytes and antibiotics at the other feed.
3. Use 2 gm/calf/day to speed up calf recovery in most cases of scours such as Rota-virus, change of diet and calf dehorning. For severe cases such as Crypto 4 gm/calf/day can be used.
4. A binding agent in the calves feed will slow the passage of our probiotic in the gut to help retain our bacteria and allow them to work.



"Our oldest mob is around 6-7 weeks of age, being fed 6 liters OAD. The only issue with scours was with de-budding and milk changes but we doubled the dose rate of Calf Xtreme Plus for this. I have never seen a mob of calves eat so much grass on a feed rate of 6 litres OAD." Reece (Reporoa)

"I rear 3000 calves and had previously tried other liquid probiotics without success. I am seeing all the results I want to see on Calf Xtreme Plus. Smooth transitions of feed with no nutritional scours and the calves are doing much better outside." Peter (Christchurch)



"Best calves I've ever reared. These ones have been weaned for a week which is two weeks earlier than normal. The amount I saved in vet bills compared to last year was more than the product cost me and just look at them. They are eating an incredible amount of grass." Mark (Waikato)

"This was one of my worst seasons for trying to rear calves. They were coming out of the paddock with scours but we lost only 1 out of 60 and treated 3 with electrolytes. Our main line of defence against scours was Calf Xtreme Plus. We have not used any antibiotics and look at how they have bounced back! This is the second year we have used Calf Xtreme Plus. I farm near Opunake and we have had the worst drought ever so we naturally look at all of our costs to see where we can cut back. I will treat Calf Xtreme like fertilizer and won't cut back on it just because I had a bad year. Our young stock are our future and we have to give them the best possible start."

Troy (Coastal Taranaki)



Calf Xtreme costs:

Daily dose 1g per calf per day. Assume 50 days on milk.

| Quantity | Price | Calves Reared | Price/Calf |
|----------|--------|---------------|------------|
| 1kg | \$215 | 20 | \$10.75 |
| 2.5kg | \$495 | 50 | \$9.90 |
| 3+ | \$552+ | 60+ | \$9.20 |
| 10kg | \$1700 | 200 | \$8.50 |

Calf Xtreme Plus costs:

Daily dose 1g per calf per day. Assume 50 days on milk. 4x bacterial dose of Calf Xtreme.

| Quantity | Price | Calves Reared | Price/Calf |
|----------|--------|---------------|------------|
| 1kg | \$235 | 20 | \$11.75 |
| 2.5kg | \$540 | 50 | \$10.80 |
| 3+ | \$595+ | 60+ | \$9.92 |
| 10kg | \$1850 | 200 | \$9.25 |

Use **Calf Xtreme Probiotic Booster** to revolutionise calf rearing

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