



Nature working with Nature

Also available in pet, horse and pig formulations.

# Probiotic and Postbiotic for Calves

Veterinary Exclusive

Available in 1L, 10L and 20L



# Why feed Precision Microbes?

Precision Microbes pro and postbiotic liquids are designed to improve gut health, support immunity in young calves, and provide protection.

## Benefits:

1. Precision Microbes is highly palatable and can help with appetite.
2. It can be fed from birth.
3. Ideal product to be fed through an automatic feeder and helps calves transition onto milk replacer.
4. Precision Microbes can help performance and growth rates.
5. Across all trials, farms on Precision Microbes long-term, have seen a significant reduction in calf diarrhoea.
6. Precision Microbes can help support calf immunity (with 70% of immunity being gut based).
7. Enterococcus faecium NCIMB10415, which is the probiotic in Precision Microbes, is licensed for gut stabilisation.
8. Scouring calves can recover faster when fed Precision Microbes.
9. In last 2 seasons, many Irish farmers continued to feed Precision Microbes 30 ml per calf daily right up to weaning because they saw a positive difference in the calves. **See testimonials in page 5.**
10. Precision Microbes is an ideal product for calf rearing and dairy to beef. Feed 30 mls daily from arrival to weaning, feeding through milk.

“Across all our trial work carried out, we have seen a reduction in calf diarrhoea with long-term usage. Better calf performance (average daily gains) was also recorded in the treatment groups on Precision Microbes versus control groups. These results have now also been seen practically in farms up and down the country. Precision Microbes products are game changers in gut health and calf health.”

Tommy Heffernan, Veterinary Consultant.

## Dosage

Treating	Dose rate	Duration
Gut stabilisation (acute cases)	60 ml orally twice daily	3 days or until symptoms resolve
Recovering from scour or other diseases Stress periods During periods of transition	60 ml daily can be fed through milk	5-7 days
Older calves or supportive treatment for summer scour syndrome	100 ml daily	3-5 days
Long term usage	30 ml daily from birth through milk	Birth to weaning

## Precision Microbes and automatic calf feeders benefits

Precision Microbes can be fed through automatic feeders. Feeders need a liquid dosing system to be added to the machine. Then a 20-litre drum can be connected and changed regularly.

There are huge benefits to feeding Precision Microbes through automatic calf feeders. During the stressful period of adapting to feeder and milk replacer for the first time. Precision Microbes help maintain appetite and reduce issues with digestive upsets during the transition period.

# Trial work

In 2021 and 2022 Precision Microbes carried out eight on-farm trials. Calves were placed into treatment and control groups on each farm.

## Key findings:

- Calves given Precision Microbes daily up to weaning all outperformed control groups across the eight farms. Calves were fed Precision Microbes 30mls per calf daily from birth to weaning on all trial farms.
- Average daily gain increases varied from 30-120g/day between treatment and control groups. The variation came from different feeding levels and disease pressures on different farms.
- The big gains have been seen on all trials in the last 4-5 weeks before weaning. Meaning for best results, continuing with Precision Microbes to weaning is the optimum approach.
- A significant reduction in digestive disturbances/diarrhoea was seen in Precision Microbes calves, with reductions of over 50% across all eight farm trials.
- Where digestive disturbances did occur, recovery time was faster and appetite in those calves was maintained.
- Across all eight farms, a reduction of treatments and antibiotic usage was observed in calves given Precision Microbes on long-term daily up to weaning.

"I carried out eight farm trials in 2021/22 with circa 400 calves in both treatment and control groups in total, with extremely positive results. There were significant differences on each farm related to management, feeding, and disease challenges. This meant that results could vary from farm to farm. For vets looking for a detailed breakdown of these trials, I am happy to share them. The outcome across all trials was positive with benefits to calf health and performance.

The key takeaway from me was farmers can see a very visual difference in their calves on Precision Microbes, and that's the most powerful data of all."

Tommy Heffernan, Veterinary Consultant.

## Two independent trials were carried out by students in SETU in 2022 and 2023

Tara Kinsella (2022) observed a 115g/day difference in dairy to beef calves on Precision Microbes versus the control group over 8 weeks. Calves were fed 30mls daily from arrival to weaning over 8 weeks, there were 10 treatments and 10 control calves.

Sheena Tyrell (2023) observed +4.2kg difference in group calf performance over 13 weeks in calves treated with PM versus the control group. Calves (18) were fed Precision Microbes daily from birth to weaning, compared to the control group (18).

Both studies are available to view on [www.interchem.ie](http://www.interchem.ie)

## Advanced Gut Stabiliser for Calves and Lambs



Precision Microbes have also developed a unique advanced gut stabiliser for both calves and lambs. They both have a prebiotic to build beneficial microbes in calves' and lambs' immature gut. Precision Microbes' unique culturing techniques also mean it is a liquid containing postbiotics.

They carry out these core functions in the gut of aiding digestion, immune regulation, and competition with harmful pathogens.

These postbiotics are the metabolites produced by beneficial bacteria that act quickly to compete with harmful pathogens in the young calves' and lambs' gut.

Antibiotics are designed to kill bacteria. These supplements along with good management is focused on supporting gut health and natural defences in the immature gut.

It can also be used in calves and lambs with dysbiosis or diarrhoea to help support physical recovery and restore normal function during or after gut health insults.



# What is the difference?

## PREBIOTICS, PROBIOTICS, AND POSTBIOTICS

Precision Microbes contain both live beneficial bacteria in high numbers along with their postbiotic (metabolites) in a unique liquid solution.

### PREBIOTICS

These are feed for the bacteria like fibre. These prebiotics are fuel for the beneficial bacteria in the gut



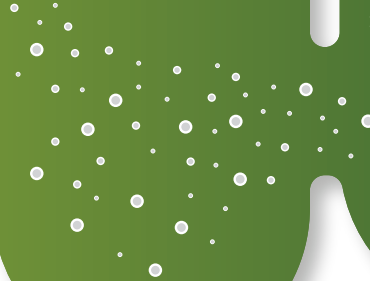
### PROBIOTICS

These probiotics such as live beneficial bacteria found in precision microbes products, act like factories to ferment fibre and prebiotics to make metabolites



### POSTBIOTICS

These are the metabolites produced by the bacteria outside the body. These are the goods that support and benefit digestive function and immunity.



### IMMUNE AND GUT SUPPORT

Postbiotics are the beneficial metabolites delivered to the animals gut. These can be digestive enzymes, short chain fatty acids, bacterocins and other metabolites. These interact at cell level to improve digestive function, immunomodulation and help with competitive inhibition.



## On farm challenges

With calf diarrhoea accounting for over 60% of disease in the pre-weaned calf, Precision Microbes will help recovery and gut stabilisation following scour.

With the need to reduce antibiotics and the challenge of AMR, we are delighted to be bringing these unique solutions to the veterinary market.

Precision Microbes Calf and Advanced Gut Stabiliser contains E faecium NCIMB 10415<sup>1</sup> which is licensed by DAFM for gut stabilisation under veterinary supervision.

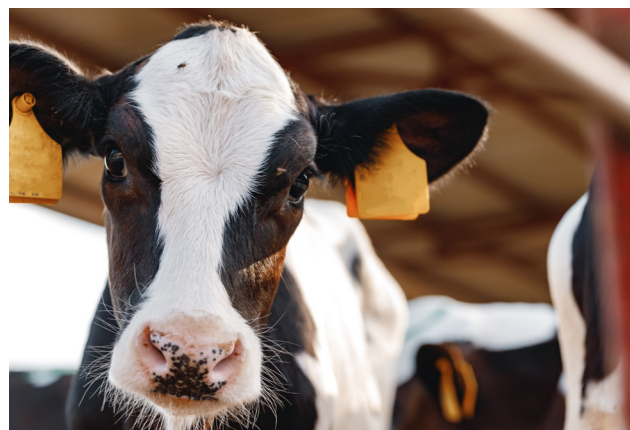
Precision Microbes Calf is only available through the veterinary channel.

## Uses and benefits

When administered early as part of a supportive care in calf diarrhoea it is extremely effective at gut stabilisation.

It can also be used to help support gut health and better immunity in calves under stress or for groups of calves recovering from disease.

Long term use of probiotics in young calves will also support better gut health, digestive function and competitive inhibition. So from birth until weaning the probiotics can be added to milk to help support better calf performance.



## What are people saying?



**Peter Hynes, Dairy Farmer, Co. Cork**

"We put the calves on Precision Microbes when our calves had nutritional scour. Within 24 hours, calves were back drinking and standing up. Within 72 hours, calves were back to their full amount of milk and looking healthier and lively."



**Tom Flanagan, Large Animal Vet, Westmeath**

"The feedback from farmers has been overwhelmingly positive. We also are seeing the benefits in long-term use with farmers whose calves are being bought in and reared."



**Bruce Thompson, Dairy Farmer, Co. Laois**

"We were having a lot of issues with bloat and scour effecting calves at 2-3 weeks old. Within a couple of days of using Precision Microbes, the calves cleared up. I found it works almost immediately for bloat"



**Denis Howard, Vet and Suckler Farmer, Co. Cork**

"Since I started using Precision Microbes it's been a game changer in gut health with my suckler calves. My routine includes fluids if needed, an anti-inflammatory, and an oral dose of Precision Microbes for calves with scour."



**Eoin Moriarty, Co. Kerry**

"I found Precision Microbes helped the calves transitioning from pure milk to milk replacer as there were no upsets. Any calf that was off drinking was back drinking 24hrs after using Precision Microbes".



**MJ, David and Joan Scallan, Dairy Farmers, Co. Wexford**

"Precision Microbes supported the reduction of antibiotics on our farm. Calves also recovered quicker and had fewer setbacks after using the treatment."



**Kieran Devaney, Vet - Ormonde Vets, Co. Kilkenny**

"I found Precision Microbes had a really positive impact in a number of scour outbreaks last March, with calves bouncing back faster than in previous years."



**Ronan Siochru, Dairy Farmer, Co. Kerry**

"When my calves had nutritional scour, I put them on a 5-day course of Precision Microbes. By the third day the calves' scour had cleared up and their appearance and overall health had improved massively."





**Kevin O'Hanlon, Dairy Farmer, Co. Wexford**

"Since we started feeding Precision Microbes, we noticed there was a lot more playing going on, the shine on their coats, the growth rates of the calves and we had no setbacks."



**Elaine Hickey, Dairy Farmer, Co. Westmeath**

"I am just delighted with the results. Precision Microbes is a fantastic product and to know that it's a probiotic, that it's actually of benefit to the calves, not just in the early stages, but for the rest of their lives, it's fantastic."



**Damien Shaughnessy, Pedigree Breeder, Co. Roscommon**

"After giving the calf two days of Precision Microbes treatment, the results were super. A great product to solve issues without the hassle of antibiotics and upsetting the calf's temperament."



**Robert Tobin, Dairy Farmer, Co. Wexford**

"The calves that had the rotavirus infection always would have dull coats and lag behind the other calves. Now with the Precision Microbes, we see no difference in calf performance post-infection and their coats look fantastic."



**Francois Walch, Veterinary Surgeon, Co. Galway**

"Precision Microbes is selling very well and no negative feedback from farmers. I have always preferred a natural solution where possible, and this seems to be working great."



**James Toner, Dairy Farmer, Co. Armagh**

"We've been using Precision Microbes for about three or four months now, and definitely see a huge improvement. Initial changes in calves are an increase in appetite. Calves are far more keen to drink even in times of challenge such as scour."



**Padraig Brennan, Practice Manager Glasslyn Vets, Co. Cork**

"I contract rear dairy calves at home and most years we get an outbreak of rotavirus. However since we started giving calves Precision Microbes a week before they travel to my farm, the cases of scour are less, and recovery is much quicker."



**Michael Connell, Dairy Farmer, Co. Dublin**

"Some of our calves got a bacterial pneumonia a few weeks back and I found that usually you get a secondary scour. However with Precision Microbes there was no secondary scour, so it was a great help for the calves."



**Anthony Burke, Farmer, Co. Tipperary**

"After feeding Precision Microbes, there was a massive uptake in the calves in 24 hours. After 48 hours, we didn't have to put any calves into the feeder. Their appetite was fantastic, and their meal and straw/hay uptake were brilliant."



**Philip Walsh, Orchard Vets, Co. Armagh**

"Most farmers giving Precision Microbes come back for more. The feedback is they've seen a beneficial effect of seeing calves with reduced illnesses and in particular increased feeding."



**Adam Conn, BVMS MRCVS Cert-DHH, Riada Vets, Co. Antrim**

"A great product to have in our toolbox against scour. Calves recover faster and thrive quicker after treatment with Precision Microbes. I have no hesitation in prescribing it for either part of the treatment plan or prevention against any of the causes of calf scour."



**Eammon O'Connell, Vet, Co. Tipperary**

"We started off with two calf areas where we gave Precision Microbes into half of the calves. By the end of week we came back and saw vigour, coat and general drive was improved."



**Donal and Marie Liston, Dairy Farmers, Co. Limerick**

“We ran into problems with scour and the general health of the calves. So we started to using Precision Microbes and within a few days, the calves began to recover. And after about a week, they were turned over completely.”



**Johnny O Hanlon, Dairy Farmer, Co. Kerry**

“We have been using Precision Microbes for three years now. It leans to my line of thinking that animals are what they eat, and it is important to put something healthier or something to weigh the balance of good bacteria versus bad bacteria into the animal. That’s what Precision Microbes does.”



**Michael Rossiter, Manager of Redmonds Farm, Co. Wexford**

“We used the Precision Microbes on a batch of calves that weren’t thriving. It seemed to work after two or three days. You could see the difference in the calves. We give the calves a five-day course with 50 ml per day.”



**John Wynne, Dairy Farmer, Co. Wicklow**

“I heard about Precision Microbes through my local vet. We started using the product because we found our calves were struggling to want the intake during the transition period. So we introduced Precision Microbes to settle down their tummy and keep the intake of milk going at that stage and it worked really well.”



**Tom Murphy, Dairy Farmer, Co. Kilkenny**

“We had challenges in the last two years with an outbreak of rotavirus. We gave Precision Microbes, starting with 50mls a day for 3 days and you could see the immediate response from the calves. Calves were back on milk immediately.”



**McDermott Family, Dairy Farmer, Co. Galway**

“Back in 2020 we got really bad calves scour. Every calf had it and we couldn’t stop it. We started using Precision Microbes for treating sick calves in 2021 and within three days you could see the calves getting better faster than anything we have ever seen before. They never stopped eating or drinking.”



**John Buckley, Dairy Farmer, Co. Cork**

“Since we started using Precision Microbes calves are a lot brighter, they are a lot more alert and active running around the calf pens. We are not having any major issues with scour. Any calves with setbacks are getting over it quickly.”



**Mark O Brein, Dairy Farmer, Co. Kilkenny**

“This is my second season using Precision Microbes with the positive results I saw last year with the calves. This year I’m feeding 30mls daily up to weaning. I’ve seen a massive reduction in issues such as with digestive upsets in the first weeks with calves.”



**Eamon Sheehan, Dairy Farmer, Co. Kilkenny**

“We’ve seen a huge visual difference in the calves since we started using Precision Microbes. They’ve had a great start to their life and their gut health is set up.”



**Michael Gowing, Dairy Farmer, Co. Offaly**

“I saw the benefits of Precision Microbes last season and now feeding long-term 30mls/day through our automatic milk feeding system. I run a busy yard and attention to detail is important, feeding Precision through the feeding system is one less task to do.”



**Ken Gibson, Dairy Farmer, Co. Westmeath**

“I’ve used Precision Microbes to speed recovery around calf digestive issues. We are very happy with the results this year and will be using it on all calves long-term next year”.

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## References

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