



Nature working with Nature

# Probiotic & Postbiotic

Liquid Supplement for Horses & Foals



The World's Leading  
Equine Gut Supplement  
Now Available in Australia



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## Introducing Precision Microbes

Precision Microbes is a microbiology company based in Dublin, Ireland, with decades of experience working with microbes and biome-based solutions for animals.

The company is proud to bring a range of first-of-their-kind liquid probiotic and postbiotic blends to the global marketplace.

### Precision Microbes Probiotic & Postbiotic Liquid Supplement for Horses & Foals

This liquid supplement is designed to boost the hindgut health and wellbeing of horses and foals.

It promotes optimal digestive health, nutrient absorption, and supports immune function.

The unique and organic formulation is highly palatable and is best fed daily.

*"Precision Microbes directly targets gut health supporting a horse's immune system and overall performance."*



### When to feed Precision Microbes

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Improvement in gut health has been shown to assist a wide range of issues in performance horses:

- Anxious or irritable behavior
- Loose manure / scours
- Poor appetite / picky eating
- Weight loss / difficulty maintaining condition
- Dull coat
- Travel stress
- Antibiotic recovery

### Why is Precision Microbes supplement different?

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There are a number of key reasons why this Precision Microbes supplement is recommended by world leading equine veterinarians, in preference to other gut supplements:

#### **LIQUID LIVE BACTERIA AND THEIR METABOLITES >>>>> FAST ACTING**

This unique liquid contains live bacteria (controlled by pH) as well their metabolites or postbiotics - ensuring rapid action, unlike pastes and powders which contain freeze-dried bacteria.

This is the most effective format for administering microbes.

#### **ACID-ADAPTED UNIQUE STRAINS >>>>> TARGETTED & EFFECTIVE**

This supplement contains carefully selected beneficial bacteria which are acid adapted - allowing them to quickly find their way to the equine hindgut.

The specific blend of microbial strains ensures optimal impact on the hindgut.

#### **HIGHLY PALATABLE >>>>> READILY CONSUMED**

Horses love the taste of the Precision Microbes supplement in their food which helps picky eaters and ensures good intake. Maybe horses know what's good for them!

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## Why is it needed in horses?

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The importance of gut health in optimal performance is widely accepted in human and animal medicine.

Domestication and management changes have significantly impacted the natural function of the horse gut and, in particular, the hindgut.\*

Specifically;

- Diet, hard feed (starch) can lower the diversity of the gut microbiome and impact function.
- Horses on hard feed, exercising, performing, or being transported often suffer from mild dysbiosis and leaky gut.
- Stress has a huge impact on the hindgut through increased motility, reducing barrier function and reducing microbial diversity.
- Competition, exercise, and transport can all negatively impact hindgut health.
- Whilst antibiotics are important tools to fight infections, they can negatively impact the hindgut and good microbes.

\*Metcalf, Jessica L., et al. "Evaluating the impact of domestication and captivity on the horse gut microbiome." Scientific Reports 7.1 (2017): 15497.



Most horses undergoing weaning, sales preparation, and most competition or breeding activities, will face unnatural challenges that place their gut microbiome, and consequently their general wellbeing, under pressure.

This large group of challenges has created the need for a supplement to reset the and maintain the equine gut microbiome.

Through years of research, the Precision Microbes team has learnt how nature works in the equine gut and the best way to reset and maintain it. The resulting solution is the **Precision Microbes Probiotic & Postbiotic Liquid Supplement for Horses & Foals**.



### What does it do?

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**Precision Microbes Probiotic & Postbiotic Liquid Supplement for Horses & Foals** has been specifically developed to support better digestive health and help manage the challenges of the equine gut.

The unique formulation contains specially selected herbs to aid digestion, beneficial bacteria to support function/immunity, and their metabolites which help to promote a healthy gut barrier.

With special acid-adapted, beneficial microbes, the supplement can get to where it needs to be, in the hindgut.

This Precision Microbes supplement helps to provide a better balance and diversity of good microbes in the hindgut, in turn supporting better gut health, wellbeing, and optimal performance.

While most probiotics can be affected by antibiotics, our postbiotic metabolites are not. Anybody responsible for the feeding of horses or foals on antibiotics, should consider using this Precision Microbes supplement before, during, and in the weeks after treatment.

## Pre, Pro & Post-biotics – What's the Difference?

This Precision Microbes supplement contains high numbers of live beneficial bacteria 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.



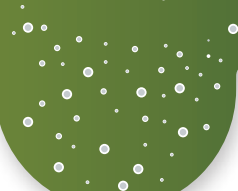
### PROBIOTICS

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.



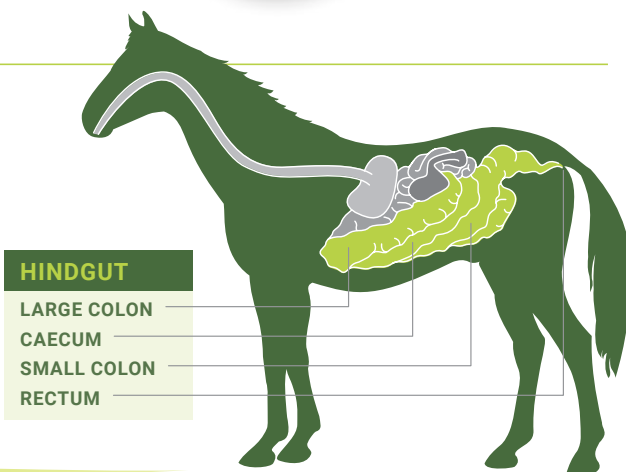
### IMMUNE & GUT SUPPORT

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.



## Targets the Hindgut

**Precision Microbes Probiotic & Postbiotic Liquid Supplement for Horses & Foals** specifically targets the hindgut to help prevent digestive issues and ease symptoms if/when they occur.



## Ingredients

The formulation of this liquid feed supplement contains three critical components that aid function and speed of action.

| Component                                                                                                          | Function                                                                                                                                                                        | Specific Ingredients                                                                                                                                                                       |
|--------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>HERBAL BASE</b><br>            | Unique mix of aromatic herbal and plant extracts (phytochemicals) providing powerful digestive health properties as well as feedstock for probiotic microbes                    | 100% organic ingredients, including cane molasses*, fenugreek, aniseed, fennel seeds, dried blossoms & leaves, liquorice root, peppermint, oregano and other certified organic ingredients |
| <b>PROBIOTIC MICROBES</b><br>     | Carefully selected combination of live beneficial probiotic bacteria in a pH controlled dormant state, providing rapid speed of action and production of beneficial metabolites | Proprietary combination of Bifidobacterium and lactic acid bacterial microbes totaling at least $1.5 \times 10^8$ cfu/ml<br>All registered under QPS                                       |
| <b>POSTBIOTIC METABOLITES</b><br> | These compounds are produced by the live probiotic microbes during propagation and regulate cell function and the production of the protective mucous layer of the gut          | Metabolites such as enzymes, Short chain fatty acids and vitamins                                                                                                                          |

\*Molasses is utilised during production and propagation of the microbes and very little remains in the final product.

## Simply add to feed

Best fed in feed daily, or administered orally to horses and foals not on hard feed.

| Foal     | Pony     | Adult Horse |
|----------|----------|-------------|
| 50ml/day | 75ml/day | 100ml/day   |



Meets all international and Australian anti-doping protocols.  
Every batch is tested in an FEI approved laboratory.

# Testimonials

## Fethard Equine Hospital

As one of the most respected equine practices in Europe, Fethard Equine Hospital is entrusted with the veterinary care of some of the world's most valuable bloodstock including Coolmore's racing and breeding stock in Ireland.

This practice of 25 specialist equine vets has used Precision Microbes with huge success to aid gut stabilisation, assists with recovery from diarrhoea, rehydration therapy, and improved digestive health in both foals and adult horses.

*"The results have been fantastic!"*



## Gordon Elliott Racing Stables

Multiple Grand National, Gold Cup and Royal Ascot winning trainer Gordon Elliot runs one of the largest and most successful racing stables in Ireland and has embraced the benefits of long-term use of Precision Microbes. The stables noticed significant improvement in the appetite, temperament, and coats of its stable stars that competed with great success at the world-renowned Cheltenham festival in 2023.

*"Our horses are feeling better than ever... it's great stuff!"*

## Cian O'Connor – Karlswood Stables

Olympic medal winning showjumper, coach and international horse producer, Cian O'Connor, feeds Precision Microbes to all his showjumping horses. O'Connor has seen Precision Microbes aid muscle development, coat appearance, digestive tract health and improved performance in the competition arena.

*"I couldn't recommend Precision Microbes enough."*



## The Spanish Riding School

This Vienna-based school is the only institution in the world to have been in practise for more than 450 years, continuing to cultivate classical equitation in the Renaissance tradition of the Haute Ecole.

Dr Christian Tanczos is the equine vet for the school and has experienced remarkable success with Precision Microbes in treating significant hindgut issues in the stable.

*"This is the natural future of animal medicine."*



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Precision Microbes

### FAQs

#### 1. Why should I include this supplement in my horse's diet?

All horses on commercial feeding regimes appreciate gut support. This supplement is a simple way to provide that support, by naturally resetting and maintaining the gut microbiome.

More specifically, Precision Microbes has also been shown to assist with challenges such as anxious behaviour, loose manure/scours, poor appetite, weight loss, dull coat, travel stress, and antibiotic recovery.

#### 2. How is this Precision Microbes supplement different to others?

As an easy-dose liquid containing live bacteria, this supplement is extremely **fast acting** when compared to probiotic pastes and powders which contain freeze dried bacteria.

The carefully selected strains of acid adapted bacteria ensure **optimal impact** at the hindgut. Horses and foals also find the supplement **highly palatable**.

#### 3. How long do I use it for?

This Precision Microbes supplement is ideally used on an ongoing daily basis for gut health maintenance, but for travel, gut disturbances, or antibiotic recovery a short course over 7-21 days can provide benefit.

#### 4. Do horses and foals like the taste of this supplement?

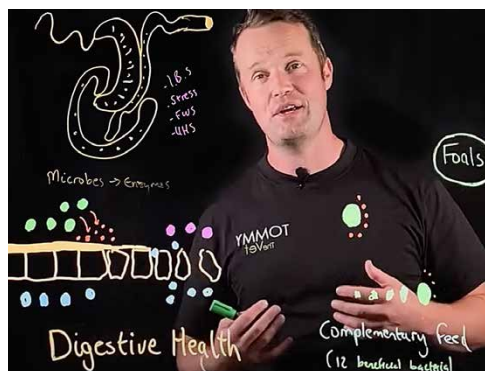
Even fussy horses enjoy the taste of Precision Microbes, and it's therefore easy to include in your daily feed regime.

#### 5. Is this Precision Microbes supplement swabbable?

No. This supplement is 100% organic, naturally occurring, and non-swabbable. Every batch is independently tested at an FEI approved laboratory for quality assurance and anti-doping compliance purposes.

*"This is health from the inside out, by supporting better digestive health and function we can transform equine health. I have been simply amazed by the results we have seen in horses. The feedback from vets and horse owners has been like nothing I've ever seen with any product in by twenty two year veterinary career. **These are real game-changers in gut health and equine health.**"*

- Tommy Heffernan, veterinary consultant





Meets all international and Australian anti-doping protocols.  
Every batch is tested in an FEI approved laboratory.

## References

Kauter, A.; Epping, L.; Semmler, T.; Antao, E.-M.; Kannapin, D.; Stoeckle, S.D.; Gehlen, H.; Lübke-Becker, A.; Günther, S.; Wieler, L.H.; et al. The gut microbiome of horses: Current research on equine enteral microbiota and future perspectives. *Anim. Microbiome* 2019, 1, 14

Julliand, V.; Grimm, P. HORSE SPECIES SYMPOSIUM: The microbiome of the horse hindgut: History and current knowledge. *J. Anim. Sci.* 2016, 94, 2262–2274.

Garber A, Hastie P, Murray JA. Factors Influencing Equine Gut Microbiota: Current Knowledge. *J Equine Vet Sci.* 2020 May;88:102943. doi: 10.1016/j.jevs.2020.102943. Epub 2020 Jan 31. PMID: 32303307.

Metcalf, J. L., Song, S. J., Morton, J. T., Weiss, S., Seguin-Orlando, A., Joly, F., ... & Orlando, L. (2017). Evaluating the impact of domestication and captivity on the horse gut microbiome. *Scientific Reports*, 7(1), 15497

Bulmer, L.S.; Murray, J.-A.; Burns, N.M.; Garber, A.; Wemelsfelder, F.; McEwan, N.R.; Hastie, P.M. High-starch diets alter equine faecal microbiota and increase behavioural reactivity. *Sci. Rep.* 2019, 9, 18621

Destrez, A.; Grimm, P.; Julliand, V. Dietary-induced modulation of the hindgut microbiota is related to behavioral responses during stressful events in horses. *Physiol. Behav.* 2019, 202, 94–100

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