

TruEquine™ Science Short:

How A Healthy Gut Supports Horse Health

Build A Better Gut:


TruEquine delivers consistent and specific metabolites to support gut resilience and structure

Optimize Gut Structure

The small intestine is lined with millions of tiny finger-like structures called villi which increase the surface area of the intestinal walls and enhance the horse's ability to absorb nutrients.

The postbiotic technology behind TruEquine is well-documented to help the quantity and quality of villi in multiple species. Taller and more dense villi promote more efficient absorption of nutrients, helping animals get more out of their diets. (Figure 1)

When stress strikes, TruEquine postbiotics contain hundreds of bioactive metabolites that support tight junction integrity and well-developed villi.



Gut Check

A compromised gut can hold horses back.

Gut inflammation requires the horse to divert more energy to an immune response and less towards performance and maintenance. A stressed gut is also less capable of absorbing nutrients which can further reduce horse performance.

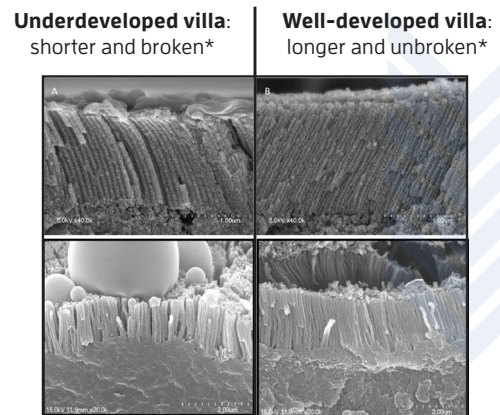
Maintain Gut Resilience

Proper gut function is critical for maintaining horse health because the gut is the body's first line of defense against environmental invasions. In normal conditions, a layer of epithelial cells bound together by tight junctions prevents harmful invaders from escaping the intestinal lining into the blood stream. (Figure 2)

When a horse is stressed, tight junctions may weaken, allowing invading pathogens to leak into the blood, a condition commonly referred to as leaky gut. Leaky gut can lead to intestinal inflammation as the horse's immune system reacts to the invasion. Inflammation requires the horse to divert more energy to an immune response and less towards performance and maintenance.

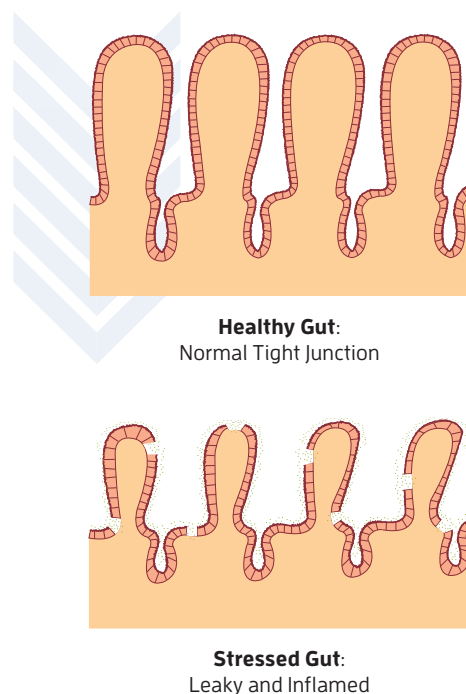
When stress strikes, TruEquine postbiotics contain hundreds of bioactive metabolites that support tighter junctions, creating a stronger physical barrier so fewer pathogens can get through the gut.

Figure 1: Villi Quality and Quantity, No Postbiotics vs. Postbiotics



* Illustration depicted from aqua and poultry

Figure 2: Normal vs. Stressed Gut Integrity



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