

ProbioticWise™ dries up diarrhea fast

Whether you are dealing with an acute situation or a chronic problem, diarrhea in horses is frustrating at best and, at worst, life-threatening. As a practitioner, your goal is to find and treat the root of the problem and then restore normal gut function as soon as possible. ProbioticWise, with its multipronged approach, can help, regardless of etiology.



Probiotic vs. prebiotic: understanding the difference is imperative.

The terms “probiotic” and “prebiotic” are often used and misused to identify a growing number of nutritional supplements for horses. In order to choose the right product for a given situation it is important to know what differentiates these two terms.

True probiotics are defined as viable microorganisms, which withstand gastrointestinal transit and reach the intestine in an active state, thus exerting positive health effects on both the intestinal microflora and the tissues of the horse itself.

On the other hand, prebiotics are defined as selective ingredients that contribute to specific changes both in the composition and/or activity in the gastrointestinal microflora. Prebiotics do not directly benefit the tissues of the horse.

Why choose ProbioticWise?

ProbioticWise offers benefits not found in other probiotic and prebiotic preparations. It contains 20 billion CFU per ounce of the true probiotic *S. boulardii*. *S. boulardii* remains viable as it transits through the digestive tract. It directly modulates tissues and cellular functions of the host; unlike others, it is a true probiotic. The inclusion of

S. boulardii in ProbioticWise effectively distinguishes it from prebiotic preparations of *S. cerevisiae* and other microbial products currently on the market that can often be incorrectly defined as probiotics.

ProbioticWise also contains a unique mix of prebiotics that include *S. cerevisiae* and a blend of fermentation metabolites that deliver antioxidants, beta-glucans and MOS. ProbioticWise provides a complete complement of both a true probiotic and a blend of beneficial prebiotics.

Clinical distinctions.

The true probiotic *S. boulardii* contributes the following benefits:

- The most recent research focuses on the mode of action by which *S. boulardii* improves the functionality of and expedites the healing of the intestinal lining and enteroluminal spaces. Researchers concluded that ingested *S. boulardii* secretes factors while transiting through the gastrointestinal tract of the host organism, which enhance the movement of intestinal cells in the process identified as restitution, commonly understood as the first step in repairing damaged cells in the gut epithelium.
- *S. boulardii* expresses trophic or beneficially stimulatory effects on the cells of the small intestine. Specifically, research has demonstrated that oral administration of the lyophilized yeast results in brush border membrane enzymes, including lactase, sucrase-isomaltase, maltase-glucoamylase, and α,α -trehalase. The stimulation of these enzymes increases starch and sugar digestion in the small intestine, reducing pass-through contamination of the hindgut.
- Dozens of clinical trials have demonstrated that the true probiotic *S. boulardii* administration attenuates chronic and acute diarrhea, caused by *C. difficile*, and in fact binds the toxins produced by *C. difficile*.
- *S. boulardii* has the ability to mitigate adhesion of pathogenic bacteria such as Salmonella and *E. coli* to the tissues of the intestines. In vitro studies have revealed that both Salmonella and *E. coli* have a high affinity for the mannose receptors on the cells of *S. boulardii*. Therefore, these pathogens are carried away as bound

passengers on transiting *S. boulardii* cells rather than attaching to intestinal cells of the brush border membrane, thereby preventing disruption of intestinal functions.

A blend of prebiotics contributes additional benefits.

- Prebiotics indirectly influence and sustain the same systems and processes of the gastrointestinal tract by nourishing the resident microbes.
- The prebiotics used in ProbioticWise are derived from components of lysed yeast cell walls, the primary components of which include mannan oligosaccharides (MOS) and beta-glucans. In vitro and in vivo research

has clearly demonstrated that these components are both indigestible by the horse's digestive processes, yet are highly fermentable and utilized by the microbial population for energy.

- In addition, these prebiotic carbohydrates can indirectly modulate various facets of the immune system, including NK-cell activity, the secretion of interleukin-10 and interferon, and the lymphocyte proliferation.
- Prebiotics along with probiotics can also inhibit the ability of transient, pathogenic bacteria from adhering to host tissue. Most notably, prebiotics have demonstrated the ability to bind with strains of harmful bacteria such as *E. coli*, *Campylobacter* and *Salmonella* both in vitro and in various species.

Administration recommendations

ProbioticWise powder formula

ADULT HORSES

- Daily maintenance: 1 scoop (1 oz) per day.
- To support horses during competition, training or shipping: 2 scoops (2 oz) per day.
- To support restoration of normal gut function: 3 to 4 scoops (3 to 4 oz) daily for 3 to 5 days and then reduce to 2 scoops (2 oz) thereafter.
- In horses experiencing digestive problems, a veterinarian may recommend higher levels for short-term use. Consult with your veterinarian for any use above 3 scoops (3 oz) per day. Do not exceed 6 scoops (6 oz) per day.

FOALS

- To support digestive tract health in newborn foals: 1 scoop (1 oz) daily from 1 through 10 days of age.
- To support restoration of normal gut function in foals: 2 scoops (2 oz) daily for 3 to 5 days and then reduce to 1 scoop (1 oz) daily thereafter. Do not exceed 2 scoops (2 oz) per day.



ProbioticWise paste formula

ADULT HORSES

- Daily maintenance: 15cc per day.
- To support horses during competition, training or shipping: 30cc per day.
- To support restoration of normal gut function: 45cc to 60cc daily for 3 to 5 days and then reduce to 30cc thereafter.
- In horses experiencing digestive problems, a veterinarian may recommend higher levels for short-term use. Consult with your veterinarian for any use above 45cc per day. Do not exceed 90cc per day.

FOALS

- To maintain digestive tract health in newborn foals: 15cc daily from 1 through 10 days of age.
- To support restoration of normal gut function in foals: 30cc daily for 3 to 5 days and then reduce to 15cc thereafter. Do not exceed 30cc per day.

When you face the challenge of diarrhea and digestive upset you can count on ProbioticWise to help restore normal gut function and get your patient on the road to recovery.

