

GALOZYME™EQUINE SPORT

Intestinal bioregulator for racing or active horses.

The ideal new component for your active horse's diet that will help maintain an optimum state of health and digestion. Use as an effective therapeutic aid in preventing and as therapeutic support to treat colic and shipping sickness.



PRODUCT CHARACTERISTICS

Galozyme™ Equine Sport was specifically created to supplement the daily diet of horses involved in sport activities of an intense and on-going nature as well as in heavy work activities.

The probiotic properties of the lactic yeasts in Galozyme™ Equine Sport are unique due to its natural supplement of amino acid components, bypass capability and high antibiotic resistance. With the result of years of research, Galozyme™ is a product which combines the positive effects of second generation probiotics with the coupling and benefits of amino acids. The dosage is such that the product can be administered daily as part of an aggressive, preventative and high quality nutritional program.

FUNCTIONS

The lactic fermentation yeast contained in Galozyme™ Equine Sport, by means of their enzymatic contents, play an important role in processes involving the digestion of sugars (especially lactose, thanks to the unique enzyme beta-galactosidase) and the absorption of balanced nutritional requirements.

Furthermore, they have also proven to be excellent bioregulators and modulators of intestinal bacterial flora (probiotic function). This enables animals to reach and maintain an optimum level of health (with improved conversion rates), which in turn leads to better vitamin absorption and better overall performance.

Once the lactic yeast in Galozyme™ Equine Sport have been introduced into the animal's intestine, they perform both a direct and indirect function on the intestinal microbic flora. Direct action is carried out on and against coliforms and many types of pathogenic enterobacteria, whereas indirect action is carried out by stimulating the development of specific lactobacilli already present in the animal's intestine. This creates intestinal microflora which plays an important role in maintaining the animal's proper intestinal microbic balance.

The unique lactic yeast in Galozyme™ Equine Sport's main probiotic property is the capability to guarantee high replication vitality in the presence of extremely low pH values (3 - 3.5) thanks to external cell walls which have a high chitin content. This enables the yeast to be highly resistant to the action of gastric juices, therefore they are capable of reaching the animal's intestine effectively and continuing their metabolic functions.

The activity at the intestinal level consists of breaking up lactose and other simple sugars, in turn converting and favouring the development of lactic acid which reduces intestinal pH. The result of this process is the reduction of enteric coliforms and the stimulation in growth of the lactobacillus bacteria which are capable of providing an

improved overall microbic balance.

This yeast differs considerably from normal beer yeasts (*Saccharomyces cerevisiae*). Although they are eukaryote, they do belong to the lactic bacteria category. Therefore, their metabolic activity is more effective than that of beer yeast, as it has been observed that these yeasts:

- are capable of penetrating the gastric barrier effectively and reaching a larger part of the animal's intestinal tract;
- are marked by high replication and implanting characteristics;
- favour the development of intestinal lactobacilli and of microflora which is useful to the animal's intestinal balance by means of its specific metabolic function (production of lactic acid);
- are more effective in maintaining the balance of the bacterial flora and act as a growth factor;
- have unsurpassed high antibiotic resistance;
- inhibit the growth of putrifying bacteria, thus reducing the unpleasant smell of the animal's feces.

The natural amino acids present in Galozyme™ Equine Sport are useful in providing specific tropism for the horse's muscle, skeleton, cardiac tissues and for the exocrine glands of the digestive system. Its dosage was studied to provide the host with a daily amount of carnitine, capable of supplementing the carnitine synthesized by the hepatocyte. Should the hepatocyte be damaged, there will still be an adequate amount of carnitine present to prevent hepatic insufficiency.

Furthermore, in the case of skeleton, muscle and cardiac tissue pathologies, carnitine is capable of optimizing the use of non-esterifying fat acids (NEFA), thus producing high levels of energy and improving performance.

BENEFITS AND APPLICATIONS

Galozyme™ Equine Sport has been specifically created to supplement the daily diet of horses involved in sports activities. It is also suitable for adult horses, foals, colts and brood-mares alike.

Galozyme™ Equine Sport has been extensively tested on many equine species under the careful guidance of qualified nutritionists and veterinarians. It has achieved excellent results when tested both as a bacterial flora bioregulator and as an invigorating element in the case of etiologies deriving from stress and diet imbalances affecting the hepatocyte.

Galozyme™ Equine Sport does not interfere with the action of vitamins and other therapeutic treatments. Instead it contributes to preventing diarrhea, gastro-duodenal ulcers and aids in vitamin assimilation and metabolic function.

In colts, during the pre-breaking phase and at the beginning of sports activities, it stimulates digestive metabolism and increases plastic yield (auxinic effect);

In horses under stress, it can reduce problems (such as colics and aerophagies) arising from intestinal flora imbalances.

It can have a detoxifying effect on the horse's kidneys and liver.

It favours absorption at an enteric level, and also favours the energetic values of food as well as the horse's rapid recovery in times of physical or mental anguish.

In stallions, it can stimulate reproduction instinct and improve fecundity and fertility rates;
In brood-mares, especially in old ones, it helps regulate estrous cycles and improves conception rates.

It helps contribute to a shinier coat and a coat which is shed more regularly.

Best results are obtained when the product is used for preventive purposes as a supplement to the horse's diet. The product must be administered over a period of 30 days alternated with a 30-day pause during the period of the horse's work or sports activities.

WHEN TO USE GALOZYME

Horses are exposed to many stressful events that may cause health problems. These stress situations include:

COLIC

Gastrointestinal upset (colic) can be caused by numerous things, from ingesting anything unusual such as weeds to a distribution of bacterial fermentation in the intestines. Although many colic cases are mild, some require surgery if the horse is to survive. Help keep the intestine functioning normally by supplementing Galozyme™ Equine Daily or Galozyme™ Equine Sport.

SHOWING AND TRAVELING

While traveling and showing, horses are exposed to many adverse conditions such as inclement weather and feed or pasture changes which can lead to poor feed intake and possible weight loss. Use Galozyme™ Equine probiotic to sustain a healthy balance of intestinal micro-organisms and help maintain healthy feed intake.

DURING PERIODS OF ENVIRONMENTAL STRESS.

Weather change and extremes (heat and cold) can put stress on the animal, resulting in reduced feed intake, and weight loss. Maintain horses on Galozyme™ during these periods.

AFTER AND DURING ANTIBIOTIC THERAPY.

Antibiotics can destroy pathogenic micro-organisms as well as the beneficial bacteria that are normally found in an animal's digestive tract. Use Galozyme™ feed supplement before and after antibiotic therapy to help maintain the natural balance of intestine microflora.

OTHER INCIDENCES OF DIARRHEA.

The co-existence of beneficial and non-beneficial bacteria is an extremely important factor in the general health of the horse. If this balance is upset with a potentially pathogenic bacteria increase, this could compromise the horse's health and growth. Use Galozyme™ feed supplement to help preserve a healthy microbial balance in the intestinal tract so as to keep or maintain top performance.

AT WEANING AND OTHER DIET CHANGES

At weaning, a young horse's digestive system is not fully developed to efficiently transition over from mother's milk to plant-based rations. The transition can result in poor appetite and weight loss. In addition, these horses are subject to further stresses such as vaccination and gelding. Since horses have a unique and delicate digestive system, subjecting them to the mentioned factors can cause the stomach and large intestine to not function normally. If a horse is subjected to these problems, its already small stomach, now not functioning efficiently,

can easily be overfilled. This can cause the stomach pH to increase, allowing potentially harmful pathogens to grow. Use Galozyme™ Equine Daily feed supplement to help maintain healthy feed intake and weight gain during periods of stress and digestive upset.

INCIDENCES OF FOAL HEAT DIARRHEA.

Neonatal foals often experience intestinal upset, most often during the sixth and seventh day of age. Incidents of foal heat diarrhea can become lengthy and severe, resulting in poor growth. Use Galozyme™ Equine Daily at lower ration to help control the length and severity of foal heat diarrhea.

INGREDIENTS

Galozyme™ Equine Sport is composed of a balanced mix of natural products, such as: dried distillers, dried stillage of brewery, wheat bran, TURVAL B (dried selected active lactic yeast, fermentation substratum, hydrolyzed proteins, powder whey) and amino acids such as carnitine (there are no artificial calcium or phosphorus additives).

CHEMICAL AND MICROBIOLOGICAL ANALYSIS

- humidity: 10%
- raw fibre: 7%
- raw proteins: 25%
- carbohydrates: 43%
- raw lipids: 5%
- ashes: 9.7%
- May slightly vary

ADMINISTRATION AND USAGE

Galozyme™ Equine Sport is added to the daily ration of fodder in the following quantities:

- foals: 10g per day
- weaning colts: 15g per day
- one year old colts, adult horses, stallions and brood-mares: 20g per day

- heavy and draft horses 30-40g per day

Galozyme™ Equine Sport is used as a therapeutic adjuvant. During the first days of use and when used as a therapeutic adjuvant, a double or triple ration is advisable. Two days prior to and after sports activities it is advisable to also double rations.

DURATION AND PRESERVATION

Two years if stored in a dry and cool place and if not exposed to direct sunlight.

For further information, contact Techna Vet Industries Inc.

Galozyme™ Equine Sport
INTESTINAL BIOREGULATOR FOR ACTIVE HORSES
(BASED ON LACTIC YEAST AND AMINO ACIDS)

***All information written by Turval Labs SRL. For Turval 12 Sport

*TURVAL Lab.: included in Register of high quality lab. of Ministry of Scientific Research (Italy) L. 46/82.

*** Galozyme™ is used as the trade product for Techna Vet Industries Inc.