

GALOZYME™ EQUINE DAILY

A daily intestinal bio-regulator with selected natural lactic yeast.
The ideal new component in your horse's diet for an optimum state of health.
An effective aid in preventing and treating colic.



DESCRIPTION OF PRODUCT

The importance and usefulness of natural active yeasts, and particularly of lactic yeasts, in the nourishment and bio-regulation of the intestinal apparatus of horses has been common knowledge for quite some time now. However, problems pertaining to the production, preservation and use of this product have, over the years, limited its use considerably.

Turval Laboratories SRL have succeeded in finding an effective solution to these problems by adopting a series of technological procedures which have been perfected and patented during many years of research and experimentation under the guidance of qualified biotechnologists.

These yeasts have now been made available to pet owners and breeders. Galozyme™ Equine Daily complementary supplement is capable of maintaining the yeast's probiotic properties unaltered and also guaranteeing its long term and stable preservability.

FUNCTIONS

Galozyme™ Equine Daily's lactic yeast features enzymes that are capable of playing a fundamental part in the digestion processes of sugars (especially lactose, thanks to the enzyme activity brought about by the included enzyme beta-galactosidase), absorbing nutritional principles and the formation of co-enzymatic factors.

This yeast has also proven to be excellent bio-regulators and modulators of intestinal bacterial flora (probiotic function). This process allows animals to attain proper digestion and maintain an optimum level of health (with improved conversion rates), which in turn leads to better plastic yields.

Once the lactic yeast in Galozyme™ Equine Daily has been introduced into the horse's intestine, it performs a direct and indirect function on its intestinal microbic flora. Direct action is carried out on and against coliforms and many pathogenic enterobacteria. Indirect action, on the other hand, is carried out by favouring the development of specific beneficial lactobacilli, which are already found in the animal's intestines, and by creating the intestinal microflora which is necessary to maintain the animal's intestinal microbic balance.

The particular probiotic properties lie in their capability to guarantee high replication vitality in the presence of extremely low pH (3-3.5). This is also due to their external cell walls which are high in chitin content. They are unaffected by gastric juices (bypass) and therefore reach the animal's intestines effectively and continue their metabolic functions.

They also act on an intestinal level by breaking up lactose and causing simple sugars to ferment. As a result of this, they favour the development of lactic acid which reduces the intestinal pH. This reduces the development of enteric coliforms and favours that of lactic yeasts which leads to an improved microbial balance.

This yeast differs considerably from beer yeast (*Saccharomyces cerevisiae*). It belongs to the lactic bacteria category, although they are eucariote and their metabolic activity is more effective than that of beer yeast. It has also been observed that:

- they are capable of penetrating the gastric barrier effectively and reaching a greater part of the animal's intestines;
- they are marked by high replication and implanting characteristics;
- they favour the development of intestinal lactobacilli and of the microflora which is useful in the intestinal balance by means of a specific metabolic function (see production of lactic acid);
- they are more effective in maintaining the balance of bacterial flora and act as a growth factor;
- they inhibit the growth of putrefying bacteria and reduce the unpleasant smell of the animal's feces.

The active principle of Galozyme™ Equine Daily supplement comprises:

- a mixture containing a fermentative substratum metabolized in simple molecular units;
- the active biomass of a lactic yeast *Kluyveromyces BO399*;
- a wide range of cellular metabolites, such as aminoacids, group B vitamins, enzymes, co-enzymes, nucleotides and so on.

BENEFITS AND APPLICATIONS

Galozyme™ Equine Daily has been specifically created in order to positively supplement a horse's daily diet. It is suitable for adult horses, foals, colts and brood-mares alike.

Galozyme™ Equine Daily has been tested on many different equine species under the careful guidance of qualified nutritionists and veterinarians. It achieved excellent results when tested both as a bacterial flora bio-regulator and as a complement to the daily diet.

Galozyme™ Equine Daily may enhance but does not impair the horse's usual vitamin intake or therapeutic treatments. In these instances, it also helps prevent diarrhea and is useful in helping prevent gastro duodenal ulcers.

In colts, foals and yearlings, it helps stimulate the digestive metabolism and also helps increase plastic yield (auxinic effect).

In equine undergoing stress, it helps reduce potential problems (such as colics and aerophagies) arising from intestinal flora imbalances. It has been observed to have a detoxifying effect on the horse's liver. It helps favour absorption at an enteric level, aids in the energetic use of food and therefore helps aid recovery in times of sickness.

In brood-mares and in old ones especially, it helps regulate estron cycles and improves conception rates. Use of Galozyme™ helps favour a shinier coat which is changed more regularly. Galozyme™ Equine Daily is best used as a daily complement to the horse's everyday diet.

WHEN TO USE GALOZYME EQUINE DAILY

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

COLIC

Gastrointestinal upset (colic) can be caused by numerous things, from ingesting anything unusual, such as potentially harmful weeds, to a range of or onset of already putrifying bacterial fermentation in the intestines, possibly due to bad or mouldy feed. Although many colic cases are mild, some require surgery if the horse is to survive. Help keep the intestine functioning normally by feeding probiotic feed supplement Galozyme™ Equine Daily or Galozyme™ Equine Sport.

SHOWING AND TRAVELING

While traveling and showing, horses are exposed to many adverse conditions, such as different weather conditions, feed or pasture changes. This may result in poor feed intake and weight loss. Administration of Galozyme™ Equine probiotics helps sustain a healthy balance of intestinal micro-organisms and balanced feed intake.

DURING PERIODS OF ENVIROMENTAL 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™ Equine Daily during these extreme periods.

AFTER AND DURING ANTIBIOTIC THERAPY

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

OTHER INCIDENCES OF DIARRHEA

The co-existence of beneficial and non-beneficial bacteria is an important factor in the general health of the horse. If this balance is upset, the potentially pathogenic bacteria increase, therefore compromising the horse's health and growth. Use Galozyme™ feed supplements to help preserve a healthy microbial balance in the intestinal tract and help maintain optimum performance.

AT WEANING AND DIET CHANGES

At weaning, a young horse's digestive system is often not fully developed to efficiently change from milk to plant-based rations, which can result in poor appetite and weight loss. In addition, these horses are further subjected to stresses such as vaccination and gelding. Due to these types of stress (and because horses have a unique digestive system), the intestinal tract does not function normally. With this, a horse's small stomach can easily be overfilled. This can cause the stomach pH to increase to a detrimental level, allowing potential pathogens to grow. Use Galozyme™ Equine Daily feed supplement to help maintain feed intake and weight gain during these times of stress, therefore supporting optimum digestion.

INCIDENCES OF FOAL HEAT DIARRHEA

Neo-natal 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 rations to help prevent or control the length and severity of foal heat diarrhea.

INGREDIENTS

Galozyme™ Equine Daily is made up of Turval B, dried distillers, dried stillage of brewery, wheat bran, dry extract of selected lactic yeast, whey, hydrolyzed proteins and dried natural fermentation substratum. (No extra calcium or phosphorus is added.)

ANALYSIS

Humidity: 11.2%

Raw fibre: 6.2%

Raw proteins: 27.2%

Inazoatic extracts: 43.6%

Raw lipids: 2.1%

Lactic yeasts: $> 3 \times 10^7$ CFU/g

Ashes: 9.7%

USE AND ADMINISTRATION

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

foals: 10g per day

weaning colts: 15g per day

heavy or draft horses: 30-40 g per day

one year old colts, adult horses, stallions and brood-mares: 20g per day.

In time of colic or at first use, double and triple doses are recommended.

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.

.***All information written by Turval Labs SRL. For Turval 6 Daily

*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 name for Techna Vet Industries Inc.

***Results of analysis may vary