



# GALOZYME™ AVIAN

## DAILY INTESTINAL BIO-REGULATOR FOR AVIAN WITH A BASIS OF TYPIFIED LACTIC YEAST

### DESCRIPTION OF PRODUCT

The importance and benefits of biologically active natural yeasts, and in particular those with lactic fermentation capabilities included in Avian diets, has been known to be beneficial for some time. The control of digestive functions and, above all, the bio-regulation of the intestinal apparatus of animals in general is a well-known fact. However, up until now, problems regarding production, duration, utilization and the preservation of biological activity of this product have notably limited its use. Our laboratories 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 are now available to breeders with the intestinal bio-regulator **Galozyme™ Avian**. **Galozyme™ Avian** is able to maintain probiotic properties unaltered and guarantee its preservation through its longevity in the intestinal tract.

### FUNCTIONS

The lactic fermenting yeasts contained in the product possess enzymes which play an essential role in the digestive processes of sugar (particularly lactose, due to an enzymatic activity of the enzyme beta-galactosidase), the absorption of the nutritional ingredients and the formation of co-enzymatic factors.

They carry out a marked **bio-regulating and modulating action in the intestinal tract and on the bacterial flora** (probiotic action), allowing the animal to reach and preserve an optimum state of health which, in turn, results in better performance.

The selected lactic yeast of Galozyme™ Avian, once introduced in the intestine of the animal, perform a direct and indirect action on the intestinal microbic flora. The direct action is carried out through an anti-coli form action against numerous pathogenic enterobacteria, while the indirect action favours both the development of specific beneficial lactobacilli already present naturally in the intestinal tract and the creation of all the intestinal microflora necessary for microbic equilibrium.

Their particular probiotic properties lie in their capacity to maintain a marked replicative vitality, **even at a very low pH** (3 – 3.5) – in virtue of their outer cellular wall with high chitin content. They are resistant to the action of gastric juices and can **therefore effectively reach the intestinal tract** where they continue their metabolic/probiotic activity

They work at the intestinal level, destroying lactose and provoking the fermentation of simple sugars that consequently are able to develop lactic acid which in turn lowers the intestinal PH. This **development of enteric coliforms slows down** and the lactic ferments increase, creating a better microbic equilibrium. This yeast **differs considerably from brewer's yeast** (*Saccharomyces cerevisiae*) because even though it is eukaryote, it is part of the range of lactic bacteria which exercise a more effective metabolic action than brewer's yeast. It has been observed it can:

- **effectively penetrate the gastric barrier**, involving vaster areas of the intestine;
- **demonstrate a major implantation and replication capacity;**
- **favour a major development of intestinal lactobacilli** and of the microflora useful to intestinal equilibriums through a specific metabolic action (see production of lactic acid). It is more efficient in maintaining the equilibrium of the intestinal bacteria flora and also act as a **growth factor**.
- has an **elevated resistance to antibiotics**.



**BENEFITS AND APPLICATIONS**

The supplement Galozyme™ Avian **was expressly studied for the purpose of completing/balancing the diet** of Avian which are subject to various types of stress.

Galozyme™ Avian has been tested extensively on subjects, under the careful control of qualified nutritionists and veterinarians, giving the best results both as a bio-regulator of the bacterial intestinal flora and as a complement to the daily diet.

Galozyme™ Avian has been shown in studies to improve the action of vitamins and therapeutic treatments.

Best results are seen when Galozyme™ Avian is utilized as a complement to the diet at the preventative stage. In fact, in past trial testing, it has shown that:

- in **Avian** under stress, problems connected to an imbalance of the intestinal flora (ex. liquid faeces) have been shown to be effectively reduced. It provokes a reaction of detoxification, favours absorption at the enteric level and the energetic utilization of nutritional substances, as well as the rapid recovery of athletic performance.
- the **plumage** becomes smoother and shinier.
- in particular, the trials conducted showed an increase of the "white powder" on the nasal *caruncula* - a phenomenon which indicates an improvement in the general state of health of the animal.
- feed conversion was favoured and an increase in weight could be seen.

**INGREDIENTS**

Galozyme™ Avian is composed of a balanced mix of natural products: 80% TURVAL B (typified active lactic yeast *Kluyveromyces F. B0399*, wheat bran pre-treated and sterilized, whey powder, lactose, hydrolysed casein), 20% diosmectite, natural aromas (there is no artificial addition of calcium and phosphorus).

**ANALYSIS**

- |                |       |                     |       |
|----------------|-------|---------------------|-------|
| • Humidity     | 11,2% | • Ashes             | 9,7%  |
| • Raw proteins | 27,2% | • Raw fiber         | 6,2%  |
| • Raw lipids   | 2,1%  | • Enzootic extracts | 43,6% |

Lactic yeast *Kluyveromyces B0399* not inferior to 50 million UFC/g

**USE AND ADMINISTRATION**

Galozyme™ Avian is added and mixed in the food in the quantity of:

5-15g per head per day

Follow recommended label instructions for exact administration quantity.

The supplement should be soaked in sugared water and mixed at the moment of feeding so it blends into the grain.

Galozyme™ Avian can be used in conjunction with antibiotic therapy with no negative effects, due its high resistance to antibiotics.

**PACKAGING**

- 172g
- 280g

**DURATION AND PRESERVATION**

**1 year**, as long as the product is kept sealed and stored in a cool and dry place.

The product is thermo stabilized.

All information written by Turval Labs SRL Italy for Turval Avian

All testing done on Turval Avian

Galozyme™ Avian is the north American marketed version of Turval Bird, Galozyme™ Avian is a trademark of Techna Vet Industries Inc.