



## Vetom probiotic feed supplements for small animals (domestic rabbits, dogs, cats, hamsters)

Those who keep dogs or cats have surely noticed that their pets enjoy eating plants, rodents, and insects found in nature because they contain natural vitamins and various biologically active substances that have a beneficial effect on their bodies. This seemingly strange behavior of predators is explained by their natural instincts.

Animals "know" how beneficial **Bacillus Substillis**, or hay bacillus, is to their health. Its spores can be found on the underside of cereal leaves. Once this bacillus enters the intestinal tract, it becomes active and cures diseases, boosts immunity.

Preparations containing hay bacillus are currently used successfully to treat and prevent diseases in domestic animals and humans.

From a scientific point of view, hay bacillus is a beneficial bacterium. It lives in the top layer of soil and migrates from there to leaves, vegetables, and fruits. It is called hay bacillus because it is cultivated in the medical industry in a nutrient medium containing hay extract. Once it enters the animal's body and digestive system, it immediately seeks out and destroys **ALL** infections.

Why do rabbits get sick at all, since they eat grass and should therefore always be healthy?

The answer is very simple: the reasons for this can be found in the unfavourable ecological effects, which are getting worse every year. Acid rain, industrial emissions, and toxic chemicals and herbicides used in agriculture and vegetable gardens destroy valuable hay bacteria, thus depriving rabbits of their natural immunity.

Just ask an experienced rabbit breeder who has been working with rabbits for a long time, and they will tell you that thirty years ago, rabbit epidemics were not a problem. Today, almost all animals beyond rabbits, including birds, must be vaccinated.

Goats have endured for quite a long time thanks to their high adaptability, but their immune systems can barely cope with the stress of unfavorable environmental factors. Regular vaccination further reduces their innate immunity.

What can be done to restore their resistance to disease?

**Firstly**, grass and hay must be harvested from areas that are far away from environmentally harmful factories, urban areas, highways, agricultural areas, and private gardens treated with chemicals, because hay bacillus still lives and can be found in large numbers in these areas.

**Secondly**, regularly add preparations containing hay bacillus, specially developed for animals, to the rabbit's feed for prophylactic (preventive) purposes. One of the most widely used preparations of this type is currently the VETOM 1.2 probiotic for veterinary use.

A major advantage of the product is that it has a gentle effect on beneficial intestinal flora, rapidly colonizes, recognizes and destroys harmful bacteria and their toxins in the rabbit's body. Vetom 1.2 promotes the production of interferon, a key protein in the immune system, whose task is to activate the immune system and the defense mechanisms of surrounding cells.

It is important to note that when combined with vaccines, the preparation does not cause side effects; on the contrary, it enhances their effectiveness.

Although *Bacillus subtilis* and *Bacillus amyloliquefaciens* bacteria are able to survive the acidic environment of the stomach, they do have a vulnerability: they are sensitive to oxygen deprivation, which means they cannot survive long-term in the intestines of animals and must therefore be administered regularly.

## **Dosage and administration of Vetom 1.2 for small animals:**

The product is administered with feed or water.

**For therapeutic purposes (in case of illness):** - 50 mg/kg body weight twice daily (maximum single dose: 75 mg/kg).

**For preventive purposes:** epidemics, conditions following antibiotic treatment, follow-up treatment for diarrhea caused by dysbacteriosis, treatment of stress following weaning from the mother, and in the event of a change in feed.

In this case, the dosage of Vetom is 50 mg/kg body weight, the same as for diseases, but it should be administered once every three days for nine days.

In the case of small animals, it is not important to measure these quantities precisely; it is sufficient to mix a small amount of powder into drinking water or food.

## Vetom probiotic feed supplements for poultry



The use of **Vetom 1.2 probiotic** allows for the normalization of metabolic processes, increased resistance of the organism (immune correction), prevention or accelerated treatment of non-infectious diseases (gastrointestinal, respiratory, stress, hepatosis) and, at the same time, increase the productivity and safety of poultry in breeding conditions.

In the field of poultry disease prevention and increasing the weight gain and safety of young birds, one of the promising approaches currently is the use of probiotics containing microorganisms.

The bacteria contained in Vetom 1.2 (**Bacillus subtilis és Bacillus amyloliquefaciens**) destroy pathogenic and potentially pathogenic microorganisms, normalize the microflora of the gastrointestinal tract, and increase interferon production, thereby contributing to the average daily weight gain of chickens.

Probiotics ensure the balance of the gastrointestinal microflora, providing favorable conditions for the processing of feed and its particular elements.

### Areas of application:

- intestinal diseases after long-term antibiotic treatment
- use of poor-quality feed
- to increase chick survival rates
- to boost the general immunity of birds belonging to the same flock

**Instructions for use:** A The probiotic is very easy to use. The powdered preparation containing starch and sugar dissolves very well in water. Simply mix it into the feed. It can be used individually (for each animal) or for the entire flock.

**Dosage:** To boost immunity, you can start administering Vetom as soon as the chicks are born, but it can also be used on adult birds. For general use of Vetom, we recommend a 20-day treatment, followed by a 20-day break, and then repeat the treatment. You will need 50 mg of Vetom powder per kilogram of body weight. To boost immunity, you can start administering Vetom as soon as the chicks are born, but it can also be used on adult birds. For general use of Vetom, we recommend a 20-day treatment, followed by a 20-day break, and then repeat the treatment. You will need 50 mg of Vetom powder per kilogram of body weight.

**For therapeutic purposes:** In case of intestinal problems, 50 mg of active ingredient per kilogram of body weight is required, twice daily: in the morning and the same amount in the evening. If the poultry is in a serious condition, the above dose may be administered up to four times a day, at intervals of at least 6 hours.

**Dosage for restoring microflora** after antibiotic treatment: the preparation should be administered once daily at the above dosage. The duration of treatment is 21 days. If there is no improvement, the treatment can be repeated.

**Warning:** it is prohibited to use Vetom 1.2 simultaneously with antibiotics and sulfonamides. it is prohibited to use Vetom 1.2 simultaneously with antibiotics and sulfonamides.

## Vetom probiotic feed supplements for pigeons



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### Areas of application for Vetom 1.2 in pigeons:

- to promote recovery after antibiotic treatment;
- when changing feed and environment;
- in case of intestinal disorders;
- to strengthen the immune system of young pigeons;
- to stimulate the development of individuals;
- to prevent infections.

### Instructions for use and dosage:

#### Individual dosage (by individual):

**With feed:** moisten the daily feed ration with water spray and mix in a small amount (pinch) of Vetom 1.2 powder. The required duration of the Vetom treatment is 10 days. The treatment can be repeated after 30 days.

**With water:** mix a small amount (a pinch) of Vetom powder in 30 ml of drinking water. You can administer the solution to the bird using a pipette or syringe for at least 5 days.

**Individual dosage (per bird):** first dilute the entire dose in a small amount of water, then add it to the birds' usual drinking water. Ensure that pigeons do not have access to other water sources during treatment. The solution must be replaced twice a day for a fresh supply.

## The use of Vetom probiotics in beekeeping



In connection with stimulating the development of bee colonies in spring and preventing infectious diseases, many beekeepers are interested, in effective feeding and the use of preparations that are safe for bees (such as probiotics), which can increase the overall resistance of bees.

The effectiveness of probiotics in beekeeping has already been proven by experimental research in Russia.

The main active ingredients of **Vetom 1.2 probiotic** are the saprophytic spore-forming **Bacillus Subtilis (hay bacillus)** and **Bacillus amyloliquefaciens**.

Studies involving the Vetom 1.2 biopreparation (manufactured by OOO NPF "I C" Novosibirsk) were conducted at the teaching apiary of Novosibirsk State University between 2005 and 2007.

As a first step in the research, experimental and control bee groups were selected. The experimental group (5 bee colonies) was fed twice. Once in August, during the bees' preparation for winter, and a second time in spring. Each colony received a 5-gram dose mixed into sugar syrup. For optimal effect, Vetom medicinal syrup was administered in small doses - 200-300 ml per colony.

The test results showed that 100% of the bee colonies survived the winter period safely, and the bees' development, honey, and wax production indicators increased.

Compared to the control groups, the number of bee colonies in the experimental apiary increased from 5 to 18 during the 2-year observation period due to the development of the breeding stock, and there was no loss among the bee colonies.

The Vetom 1.2 feed supplement, developed on the basis of natural bacteria, significantly increases the immunity of bees, preventing the development of bacterial and fungal infections. As soon as these beneficial bacteria enter the bees' bodies, they multiply intensively, inhibiting the growth of pathogenic bacteria and thus restoring the balance of beneficial microorganisms in the bees' digestive system. In addition, they produce enzymes that convert sucrose into glucose and fructose more easily and quickly.

Feeding bees with Vetom 1.2 probiotic produces useful substances. Vitamins, enzymes, and amino acids contribute to the absorption and breakdown of nutrients, the rapid recovery and regeneration of the bee's body.

It also increases the strength of bee colonies, their resistance to stress, and their overall productivity. Probiotics can be used to prevent and treat the most common diseases in bees, such as: ascospore dispersal and aspergillosis, American and European foulbrood, septicemia (blood poisoning), nosema, amoebiasis, salmonellosis, paratyphoid fever, and candidemia.

## Use and dosage of Vetom 1.2 in apiculture

### 1. Sugar honey candy:

Mix 500 g powdered sugar with 150 ml melted honey and 50 ml sugar syrup (or boiled water), in which 10 g Vetom 1.2 has been dissolved. Then place the sugar "pancakes" weighing approx. 300–500 g and approx. 2 cm thick into bags and spread them on the bee frames.

### 2. Liquid honey-bee bread mixture:

Mix 1 kg of honey, 500 g of pollen and 10 g of Vetom powder mixed in 0.5 liters of warm water, then strain the mixture through a fine filter. Give 0.3–0.5 liters per colony to the bees over 2–3 days. It can also be poured into the honeycomb and feeders.

### 3. Sugary water:

In spring, the ratio of water to sugar should be 1:1, while in winter it should be 3 parts sugar to 2 parts water. Add 10 g of Vetom powder (dissolved in a small amount of water) to this mixture. Add 0.3–0.5 kg of sugar syrup per family overnight, then repeat after 2–3 days.

Preventive feeding should be carried out 2–3 times, while treatment of sick families should be carried out with a 10–14 day course.