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## **The Benefits of Belta Probiotics for the Health and Productivity of Poultry and Livestock, Particularly During Climate Change**



**Belta Probiotics**  
1 Litre and 500 cc Bottles

# **The Benefits of Belta Probiotics for the Livestock and Poultry Industries**

## **1. General Benefits of Using Belta Probiotics**

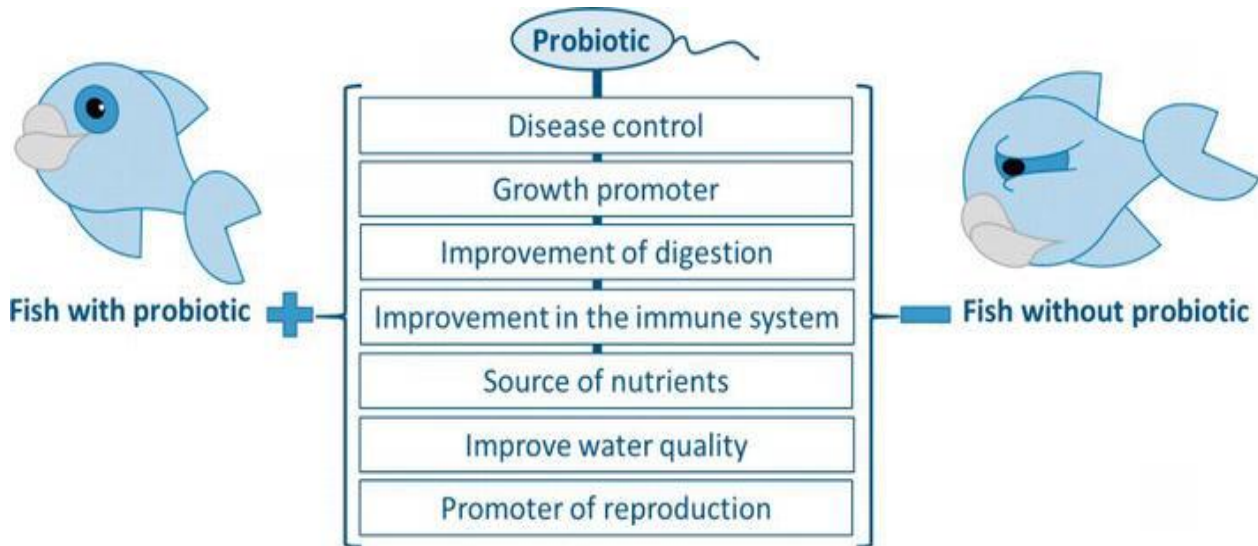
- Belta Probiotics improves digestion in poultry and livestock, such as cows, buffalos, chickens, sheep, and pigs, so that they absorb more protein, minerals, etc. It thereby increases their growth rate and meat production.
- It also inhibits disease-producing organisms; prevents diarrhea due to bacterial infections; reduces stress after vaccination, antibiotic therapy and transportation; and stimulates immune system responses.
- Belta Probiotics improves the health of animals by increasing significantly the amount of beneficial, digestive, probiotic bacteria in the digestive tract. Animals and poultry become healthier and their immune system is strengthened so that they are much less liable to fall ill.
- The animals do not have to take medicine during the period in which the farmer is using Belta Probiotics. This reduces production costs.
- In addition, because the animals and poultry digest more efficiently, they become heavier and grow healthily. As a result, the farmers can sell them for a higher price.
- When Belta Probiotics is provided to chicks and young animals at an early age it helps to establish a beneficial gut microbiota, and it sets poultry and animals on a healthy and productive path of development.
- Because the poultry and animals digest their feed better, their growth rate increases, and they can be taken to market sooner, which means that the farmers spend less money on raising the poultry and animals.
- Belta Probiotics can be used to deal with several challenges in commercial poultry production, which can have major economic consequences, such as opportunistic bacteria; Salmonella; Coccidiosis; Necrotic Enteritis; and heat stress caused by climate change.
- If any poultry or livestock fall ill, such as they have flu, Belta will not cure them of their illness. It is not a medicine. But it will help them to become stronger again because it will improve their digestion of proteins and minerals (and also of the medicine, if this has been mixed into their food). It will also help their immune system to become stronger again. Belta is useful in that it also helps to prevent the animals from getting ill in the first place.
- Belta Probiotics also provides a safe and effective approach to phasing out the use of antibiotics in line with consumer demand.
- Healthy cows means that the cows are happy and this results in more milk and weight gain.
- Animal manure becomes more bio-degradable and beneficial to the soil. Also, it only has a mild smell.

## **2. Probiotics Reduce the Effects of Climate Change**

- **Poultry:** Heat stress has negative effects on physiological response, growth performance and laying performance, which appears in the form of reducing feed consumption, body weight gain, egg production, feed efficiency, meat quality, egg quality, and immune response. Probiotics improve the general health status and productivity of heat-stressed birds by enhancing stress tolerance, oxidative status and immune response, and thereby minimize production losses due to heat stress in particular under the growing global warming crisis.
- **Livestock:** The most significant direct impact of climate change on livestock production comes from heat stress. Heat stress results in a significant financial burden to livestock producers through decrease in milk component and milk production, meat production, reproductive efficiency, and animal health. Probiotics help support the normal integrity and function of the rumen and lower gut intestine by reducing heat stress induced oxidative pressure; thereby minimizing health and financial losses associated with heat stress.

### 3. **Benefits for Fish Farming**

- The benefits for fish farming in which probiotics are used in an enclosed environment include: the control of water quality; disease control; promotion of growth; improvement in digestion (enzymes); improvement in the immune system; and the absorption of nutrients; among others.
- The diagram below shows that Belta Probiotics would make it easier and more profitable to raise fish commercially by increasing the growth rate of the fish and by keeping the fish free of disease. It would encourage people to take up fish farming.
- The same benefits apply to prawn farming.



### 4. **Benefits for Poultry Farming**

- The use of Belta Probiotics reduces poultry mortality by improving the health of the poultry.
- Poultry produce more eggs.
- The quality of the eggs increases because the poultry absorb more protein and minerals. Locally produced eggs will not be of a lower quality than imported eggs any longer.
- The benefits of Belta Probiotics will make running a large poultry operation more profitable and more attractive as a business.
- The efficiency of digestion improves.
- Chicken meat has more protein and less fat. This makes it healthier to eat.
- The rate of growth is usually about 10%-15% faster.
- The final body weight is usually about 12%-15% higher.
- Lower cholesterol.

### 5. **Benefits for Pig Farming**

- Pigs fed with Belta Probiotics convert animal feed to weight-gain more efficiently than those fed without Probiotics. The gain weight more quickly. This applies to all kinds of poultry and animals.
- They have improved immunity to disease.
- The cost of production is lower for the pigs fed with Belta Probiotics compared to pigs fed in a conventional way.
- There is less fat in the meat and it can be sold for a higher price.

### 6. **Benefits for Raising Livestock**

- Livestock often increase their weight by about 15%. We have received different results from farmers who have used Belta Probiotics with cows, pigs, and chickens increasing their weight from 15% - 25%. Belta Probiotics will increase the food intake and the amount digested.

- The probiotic bacteria divert hydrogen metabolism from methane production (which is wasteful of carbon) to acetogens, which results in reduced methane emissions and an increased transfer of carbon from the animal's feed into its growth.
- The volume of milk will increase, but we cannot say by how much. It varies between 5% and 20%. The increase will only take a few days to start.
- Belta will give the carcass a higher grade.
- In short, usually the weight increases about 15%; the animals are healthier and they do not seem to fall ill, which reduces medical expenses; the milk yield increases; their feces are not smelly; the cows do not seem to give off a smell that attracts insects; and the carcass is given a higher grade. As a result, the farmer's costs drop and revenue increases. The percentage increases depend on how long the cows have been using Belta Probiotics. The benefits become more noticeable the longer the animals use Belta Probiotics.

## **7. The Need for Probiotics**

- Because of the kind of feed that animals are given, and their physical environment, it is common for animals to be lacking in essential probiotic bacteria. This has a negative effect on the digestion and on their health and growth. This is why probiotic supplementation is so important.
- In sufficient numbers, the probiotic bacteria keep disease-causing bacteria from overpopulating the intestine.
- The probiotic bacteria not only improve digestion, they also manufacture B vitamins and boost the immune system activity.
- Because they increase immunity, they influence positively the overall health of the animal.
- The body is dependent upon nutrition. Every building block, every bone cell, even the sheen of the hair and skin, is the result of the food eaten. But what good does it do to select high quality feed if its nutrients are not fully absorbed? This is how Belta Probiotics helps.
- Enzymes that assure greater levels of digestion and absorption of the feed, and probiotic bacteria that keep problems in check, can make a huge difference in the health of animals and their growth.
- Micro-organisms used as probiotics improve the efficiency of the gut microflora. They improve feed intake significantly, the feed conversion rate, the daily weight gain, and the total body weight in chickens, pigs, sheep, goats, cattle, and horses, for example.

## **8. Benefits for the Economy**

- Commercial poultry and animal feed producers can increase the effectiveness of their granular feed by mixing it with Belta Probiotics during the production. This will make locally produced animal feed more attractive than imported animal feed.
- The use of Belta Probiotics in animal feed will make other kinds of livestock and poultry farming feasible. For example, ostrich farming.
- Commercial poultry farms will be more profitable and attractive as business opportunities.
- Gradually, egg production will increase and fewer eggs will need to be imported.
- More youth will leave the cities to carry out livestock and poultry farming as well as agriculture activities.