



MLC synbiotic

Water-soluble Powder (can be combined with food)

Probiotic + Prebiotic

Improving the gastrointestinal function and enhancing the immune system

Suitable for aquatic animals

Ingredients:

- Lactobacillus casei at least 1.25×10^9 cfu/g
- Dextran oligosaccharide

The digestive system is one of the most important systems in the body. In addition to digestive problems, the imbalance of intestinal flora disrupts the immune system and endangers the animal's health. Probiotics are a beneficial type of bacteria whose role is to support intestinal health and immune system function. Prebiotics are nutrients for probiotics and cause probiotics to grow exclusively and enhance their effect. Supplements containing probiotics and prebiotics are called synbiotics.

MLC synbiotic, a product of makiandampars, contains a powerful combination of millions of beneficial Lactobacillus casei bacteria and its exclusive prebiotic, dextran, which restores and regulates the microbial flora, improves digestion and absorption, and enhances the digestive and immune system. Lactobacillus casei is a very resistant probiotic that can pass through the acidic environment of the gastrointestinal tract without damage and is replaced in the intestine at a very high concentration. The use of Lactobacillus casei probiotic along with its specific prebiotic, dextran, in MLC product restores the balance of the microbial flora of the digestive system and increases beneficial intestinal bacteria. After regenerating the microbial flora and reducing the population of harmful microorganisms, the amount of food digestion and absorption increases and improves the growth and weight of the fish. Also, this product enhances the immune system and prevents infectious diseases and digestive problems.

Mechanism of action:

Lactobacillus casei, after replacement in the digestive system, prevents the growth of pathogens and reduces the risk of gastrointestinal infections competitively and also by producing lactic acid. Lowering the pH of the digestive system and increasing the activity of digestive enzymes, which results from the activity of Lactobacillus casei, causes better absorption of micronutrients, including vitamins, amino acids, and mineral elements such as zinc, phosphorus, calcium, and manganese, and thus improves food conversion ratio and weight gain.

Also, by stimulating the immune system and increasing macrophages, these bacteria increase the body's resistance to infectious diseases and greatly reduce the need for antibiotics. Lactobacillus bacterium increases the immune response and resistance to diseases by producing short chain fatty acids, diacetyl and bactericidal proteins.

Dextran is a polysaccharide that is produced by the fermentation and growth of *Leuconostoc mesenteroides* bacteria in sucrose base medium. Dextran is resistant to digestive enzymes, bile acids, stomach acids and passes through them without any change and reaches the intestine. In the intestinal environment, only bacteria that produce dextranase enzyme, such as beneficial lactic acid producing bacteria, including *Lactobacillus casei*, are able to use dextran.

therefore, due to the growth of these bacteria and the production of short chain fatty acids by them, the intestinal environment becomes acidic and prevents the growth of pathogenic bacteria. Dextran oligosaccharide also stimulates immune complements and helps enhancing the immune system.

Indications:

- Improving the gastrointestinal function
- Regulation and restoring the microbial flora
- Improving weight gain
- Improving production efficiency and performance
- Enhancing the immune system
- Reducing the incidence of infectious diseases (Aeromonas, pseudomonas)
- Preventing gastrointestinal parasitic diseases
- Preventing gastrointestinal problems
- Reducing the negative effects of stress (decrease in temperature, increase or decrease in pH, increase in water salinity)



Recommended dosage:

200 gr/ton of feed

Drug interaction:

Compatible with all kinds of commonly used drugs, additives and vaccines

Withdrawal period:

No withdrawal period is required

Storage conditions:

keep in dry place and store in less than 25 °C, away from direct sunlight and in sealed packets.

Packaging:

200 gram aluminum sachets

Expiration date:

24 months after the date of manufacture



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