



MLC

Water-soluble Powder

Probiotic + Prebiotic

Improving Gastrointestinal Function and Enhancing Immunity

Suitable for Ruminants

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 Makian Dam Pars, 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 weight gain and FCR. Also, this product enhances the immune system and prevents infectious diseases and digestive problems such as diarrhea, constipation, inflammatory bowel disease (IBD).

Mechanism of action:

Lactobacillus casei, after replacement in the digestive system, prevents the growth of pathogens and reduces the risk of gastrointestinal infections such as Salmonella and E.coli 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, these bacteria increase the body's resistance to infectious diseases and greatly reduce the need for antibiotics.

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 such as *E. coli*, *Campylobacter*, *Clostridium perfringens* and *Salmonella*. Dextran oligosaccharide also stimulates immune complements and helps enhancing the immune system.

MLC Indications:

- Improving the gastrointestinal function
- Regulating and regenerating the microbial flora
- Improving dysbiosis caused by diseases such as mastitis, Johne's disease, digital dermatitis, metritis, endometritis and bovine respiratory disease (BRD).
- Improving ketosis and acidosis
- Improving weight gain and FCR
- Improving production efficiency and performance
- Enhancing the immune system
- Preventing abomasum displacement
- Reducing the incidence of infectious diseases (Salmonella, E.coli, Cryptosporidium)
- Preventing gastrointestinal problems (acute and chronic diarrhea, constipation, bloat, etc)
- Reducing the negative effects of stress (heat stress, transportation, humidity, etc)



Recommended dosage:

Calves and Small ruminants: 3 g/day

Beef and Dairy cattle: 5 g/day

According to the veterinarian's opinion.

Storage Conditions:

Store in a cool and dry place at 25°C and away from direct sunlight. Keep out of reach of children

Packaging:

200 gram aluminum sachets

Expiration Date:

24 months from production date



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