



## MLC synbiotic

### Water-soluble Powder

### Probiotic + Prebiotic

## Improving Gastrointestinal Function and Enhancing Immunity

### Suitable for Pet

#### Ingredients:

- Lactobacillus casei at least  $1.25 \times 10^9$  cfu/g
- Dextran oligosaccharide

The digestive system is a vital system for maintaining the health and survival of pets. Having a healthy flora is essential for the optimal functioning of the digestive system, and it also increases immunity and prevents various diseases.

The advantage of using a synbiotic combination is its effect on increasing the survival of probiotics during the gastrointestinal tract of the host and their growth by using their specific prebiotic.

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 the gastrointestinal function. Also, this product enhances the immune system and prevents infectious diseases and digestive disorders such as diarrhea and constipation.

### **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 gastrointestinal efficacy.

Also, by stimulating the immune system, these bacteria increase the body's resistance to infectious diseases such as canine parvovirus and feline panleukopenia and also 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. Dextran oligosaccharide also stimulates immune complements and helps enhancing the immune system.

### MLC Indications:

- Improving the gastrointestinal function
- Regulating and regenerating the microbial flora
- Increasing nutrient absorption
- Enhancing immune system
- Reducing infectious diseases (canine parvovirus, feline panleukopenia virus, etc.)
- Preventing gastrointestinal disorders (diarrhea, constipation, bloating, etc.)
- Preventing inflammatory bowel disease (IBD) and irritable bowel syndrome (IBS)
- Reducing negative effects of stress (heat stress, transportation stress, etc.)



**Recommended dosage:**

**Cats and small breed dogs:** 5 g/day

**Large breed dogs:** 10 g/day

**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



Our Website



Tehran, Iran



+982166597230-31



manager@makiandampars.com



www.makiandampars.com



@mmdpp



@makiandampars



@makiandampars