



## MLC

### Water-soluble Powder

### Probiotic + Prebiotic

### Improving Gastrointestinal Function and Enhancing Immunity

### Suitable for Equine

#### Ingredients:

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

In general, more than 70% of the performance of the horse's immune system is provided by the digestive system, therefore, a healthy digestive system, in addition to better digestion and absorption of food, can also provide the performance and overall health of the horse and prevent the occurrence of many secondary diseases. Among the factors that can endanger the health of the digestive system is the disturbance of its microflora balance, which can be caused by various reasons, including a sudden change in diet (especially after an excessive increase in grains), the use of antibiotics, infections and etc. and leads to many problems such as colitis, colic, laminitis and other clinical problems. Therefore, it is necessary to maintain the balance of the microflora of the digestive system to improve its function and maintain the body's immunity.

### **Mechanism of action:**

MLC synbiotic contains probiotic *Lactobacillus casei* along with dextran oligosaccharide (prebiotic). *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 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* bacteria 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 such as *E. coli*, *Campylobacter*, *Clostridium perfringens* and *Salmonella*. Dextran oligosaccharide also stimulates immune complements and helps enhancing the immune system.

The unique MLC product has been formulated by using probiotics along with compatible prebiotics in such a way that the resulting synbiotic has the highest level of effectiveness and stability.

### MLC Indications:

- Improving the gastrointestinal function
- Regulating and regenerating the microbial flora
- Improving weight gain
- Enhancing the immune system
- Reducing the incidence of infectious diseases
- Preventing gastrointestinal parasites
- Preventing gastrointestinal disorders (diarrhea, constipation, bloat, etc.)
- Reducing the negative effects of stress (competitions, transportation, etc.)
- Before, during and after deworming and antibiotic therapy



**Recommended dosage:**

**Adult horses:** 4 g/case/day

**Foals:** 2 g/case/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



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