



VET EXPERT

BASED ON EVIDENCE

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BioProtect

❖ Indications:

For dogs and cats with alimentary tract microflora disturbances caused by diarrhea or antibiotic treatment, as well as for growing animals and animals prone to constipation.

❖ Content:

Bacteria: Lactobacillus acidophilus

Enterococcus faecium, Bifidobacterium longum,

Lactobacillus rhamnosus, total - 5 billions c.f.u

Mannanooligosaccharides, fructooligosaccharides

SUPER PROBIOTIC with MOS i FOS

Optimal composition

Bacteria: Lactobacillus acidophilus + Enterococcus faecium

Bifidobacterium longum + Lactobacillus rhamnosus, 5 billions c.f.u. –

every strain hold 25%

Mannanooligosaccharides 50 mg

Fructooligosaccharides 50 mg



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Properties and usage:

- **The bacteria:** *Lactobacillus acidophilus + Enterococcus faecium + Bifidobacterium longum + Lactobacillus rhamnosus* in total amount of 5×10^9 c.f.u/g were selected based on its known beneficial probiotic activity. They occur naturally in alimentary tract microflora and their increased level stimulates the production of short-chain fatty acids (acetic, lactic) which are an additional energy source for enterocytes. They facilitate ions absorption what lowers the risk of diarrhea. The end-products of their metabolism inhibit the growth of pathogenic bacteria i.e. *E. coli* or *Salmonella sp.*



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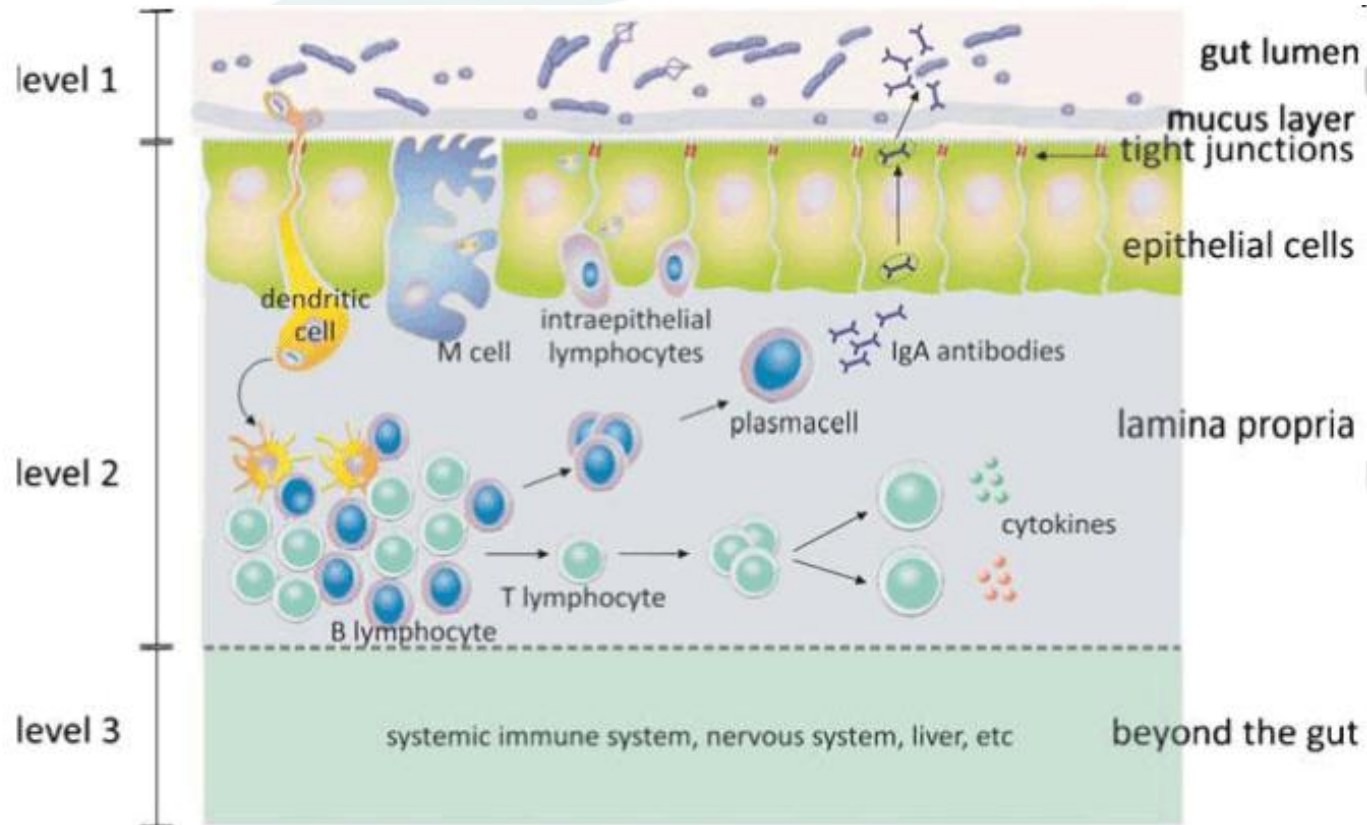


Figure 1 - The 3 levels of action of a probiotic. Probiotic bacteria can interfere with growth or survival of pathogenic microorganisms in the gut lumen (level 1). Probiotic bacteria can improve the mucosal barrier function and mucosal immune system (level 2) and, beyond the gut, have an effect on the systemic immune system as well as other cell and organ systems such as liver and brain (level 3) (Rijkers et al., 2010).

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- **Fructooligosaccharides (FOS)** are prebiotics being a natural nutrient for probiotic bacteria but which can not be used by harmful bacteria. Prebiotics by decreasing feces pH stimulate the growth of beneficial bacteria and inhibit the growth of harmful bacteria, such as *Clostridium perfringens*. Prebiotics improve the feces consistency without increasing its volume, inhibit production of endotoxins and decrease the level of putrescent substances within gut.
- **Mannanooligosaccharides (MOS)** due to its adhesive properties block the sites of adhesion of harmful bacteria with alimentary tract endothelium what unables the colonization of intestines by pathogenic bacteria. MOS increases the level of IgA antibodies in colon what stimulates the non-specific immunity of alimentary tract.

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Dosage:

- As adjuvant for antibiotic therapy – 1 cap per day (till 7 days after therapy)
- For growing pets– 1 cap per day for 20 days
- Diarrhea, constipation – 2 caps per day for 10 days
- After deworming - 1 caps per day for 7 days

The recommended dosage could be modified by the veterinary surgeon.



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NUTRITIONAL PURPOSE

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Content:

- Bacteria: Lactobacillus acidophilus; Enterococcus faecium, Bifidobacterium longum, Lactobacillus rhamnosus, total - 5 billions c.f.u;
Mannanligosaccharides; Fructooligosaccharides

Key benefits:

- The only product on the market with four different bacterial probiotic strains
- Mannanligosaccharides and fructooligosaccharides stimulating alimentary tract microflora
- Synbiotic = Probiotic + Prebiotic
- Recommended as a adjunct therapy during antibiotic treatment, during vaccinations and after deworming.
- Could be sold as whole packaging or in blisters.

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