



# BEYERS CONDITION & CARE

## SUPPORT



## PROBIOTICS AND PREBIOTICS – A POWERFUL COMBINATION!

### WHAT IS THE DIFFERENCE AND WHAT DO THEY ACHIEVE?

**Probiotics** (Latin 'pro bios' meaning 'for life') are nutritional supplements that contain living micro-organisms (benign bacteria) that promote the growth of other micro-organisms. They are a component of the intestinal flora and have a beneficial effect. Lactic bacteria are the most commonly used.

Disruption of the ecological balance in the intestinal flora can favour development of damaging bacteria such as escherichia coli. (e.g. after an antibiotic cure, during diarrhoea, when pigeons return tired from a competition flight or during vaccination periods). Probiotics displace these infectious bacteria and improve digestion.

But only adding additional probiotics as a dietary supplement is not enough. The additional microorganisms need a food source.

And that is the role of the **prebiotics**. These are non-digestible substances, i.e. not living organisms, which are a valuable selective source of nutrition for intestinal bacteria and for the beneficial ones in particular. The most well-known of these substances are fructo-oligosaccharides (FOS). FOS are fermented by the intestinal flora, whereby short-chain fatty acids are formed such as acetic, propionic and butyric acids. These fatty acids keep the intestinal wall healthy and stimulate the growth of good bacteria. Mannan-oligosaccharides (MOS) can prevent certain pathogens from binding to the intestinal wall. MOS can bind with certain receptors (lectins) on the outer wall of bacteria and thus prevent the bacterium from binding to the intestinal wall.

**BEYERS** has developed **BIOFLORUM**, a combined prebiotic and probiotic preparation. It contains Calsporin<sup>®</sup>, the only registered and thus proven effective probiotic for pigeons. The addition of fructo-oligosaccharides as prebiotics provides an ideal nutritional basis for probiotic growth, and that enhances the effect. When fructo-oligosaccharides and mannan-oligosaccharides are added as prebiotics, they each in their own way provide an ideal substrate for the growth of the probiotic, boosting the effect and strengthening the pigeon's resistance. Beta-glucans are also added to promote healthy intestinal function.



## BIOFLORUM

### INTESTINAL CONDITIONER WITH BOTH PROBIOTICS AND PREBIOTICS.

- Contains Calsporin<sup>®</sup>, the only registered and therefore proven probiotic for pigeons.
- With added prebiotics: FOS, MOS and beta-glucans.
- With fennel fruit powder, chamomile flower powder and ginger root powder to support the digestion and with sodium butyrate as energy source for the intestinal cells.
- For a healthy intestinal flora, nice manure and extra energy.
- To strengthen the pigeons' natural resistance and to support the metabolism.
- Contains slow sugars (maltodextrin) and fast sugars (dextrose) to support the pigeons' fitness.

#### Instructions:

20 gr / 1 kg feed

- All year round: 1 or 2 x per week moistened with **GARLIC OIL**, **ENERGY OIL** or **ROYAL JELLY**