

## AB-DENTALAC

**The first probiotic specifically designed to fight the oral pathogens causing the most common oral diseases: caries, gingivitis and bad breath.**



### SCOPE

Oral microbiota is composed of hundreds of bacterial species that in normal conditions work as a natural defense system, but some factors (inadequate oral hygiene, illness, stress, poor diets...) can disrupt this protective oral balance and allow harmful bacteria such as Porphyromona gingivalis, Fusobacterium nucleatum, Prevotella denticola and Treponema denticola to damage dental and gingival tissues, contribute to plaque buildup, cause bad breath etc. The percentage of population, that will suffer gum disease, bad breath or caries during their lifetime ranges between 30 and 50%. Some tooth paste products and mouthwashes contain broad spectrum bactericidal compounds that kill harmful bacteria but also protective microorganisms. Usual administration of probiotic formula may ensure that protective microorganisms will be the first ones to recolonize the oral cavity, aiming to keep the oral microbiota equilibrium through a biological solution.

### PRODUCT

Patented probiotic strains by WO2012022773A1  
Lactobacillus plantarum CECT 7481  
Lactobacillus brevis CECT 7480

AB-Dentalac probiotic strains have been specifically selected as the ones with the best performance in the prevention and treatment of oral complications, bad breath and tooth decay among others.

### EVIDENCE: IN VIVO ANIMAL MODEL

– 6 FoxHound dogs.

- AB-Dentalac applied as a gel into the gingival pockets using a topic application syringe.
- Longitudinal study for microbiome composition before and after treatment with AB-Dentalac.
  
- The 7 more representative phyla found in a healthy dog mouth are Bacteroidetes (53,0%), Firmicutes (15,4%), Spirochaetes (10,8%), Proteobacteria (9,0%), Fusobacteria (7,3%) and Chloribi (1,5%).
- The results establish a starting point for future studies by setting the normal oral microbiota in healthy dogs.
- The application of the probiotic formula AB-Dentalac can modulate and improve the microbiota profile in the gingival pocket, increasing the concentration of commensal, non-pathogenic bacteria and displacing the harmful subpopulation.