



CMS Dental

Our Innovation Your Success

ProlacSan[®]

The dental probiotic

**Boost your oral biofilm
and do something good
for your overall health**



Healthy mouth healthy body

- We have known this for years. **Now** it is time to act

Strengthening the biofilm and thus the bacterial composition in the oral cavity is essential for achieving a healthy mouth and thus a healthy body.

Several studies have shown that the state of health of the oral cavity is directly related to several chronic systemic diseases of the body and pathogenic bacteria found in the mouth are directly involved in these illnesses.

Probiotics

Probiotics come from Greek and mean "for life". The term covers a range of microorganisms, mainly consisting of lactic acid and bifido-bacteria.

They are attributed to health-promoting properties because their presence is considered to have a beneficial influence on the microbial flora, the so-called microbiome, and thus on the composition of the biofilm. This occurs through an interaction with the immune system.

We already know about the beneficial properties of probiotics on our gut flora. It is exactly the same in the oral cavity.

The immune system often stimulates via either the oral cavity or the intestinal tract, where most bacteria are present. The very purpose of a probiotic is to strengthen the biofilm in the oral cavity or to protect tooth surfaces and mucous membranes in the oral cavity.



Important properties ProlacSan®

There are important properties that must be present for an oral probiotic. The most important are:

- The selected strains can survive in the oral cavity.
- The selected strains can attach to all the different surfaces of the oral cavity.

Secondly, the selected strains must be able to form biofilms as well as be part of a biofilm. This is because the bacterial strains are not isolated - except in laboratories!

Bacteria live freely in a complex structure called a biofilm.

On the other hand, there are properties that we do not want potential probiotic strains to have, they must not produce acid and they must not produce VSC (volatile sulphur compounds).

Overall, the strains chosen must also not contain genes for antibiotic resistance.

Probiotics compete with harmful bacteria for space in biofilms and available nutrients. They simply push the harmful bacteria out and eat their food.

Biofilm is everywhere in nature and life would not exist without it.





ProlacSan®



How to select the most effective probiotics for the mouth

When we talk about local effects, these must be probiotics that live naturally in the local environment, be in skin, oral cavity, gut, vagina, and so on.

Then you have to look at the more specific details. For example, if you are going to use a probiotic to prevent tooth decay, the bacteria must be able to attach to the tooth surface, but not only that, they must not produce acid. The probiotic bacteria must also be able to easily survive the effects of chemicals in toothpaste, rinses, and other chemicals used in the oral cavity. Next, probiotics release local

antibacterial substances. The reason for this is that competition over hundreds of millions of years has made a natural selection. Some of the bacteria have simply evolved mechanisms to gain advantages over other bacteria.

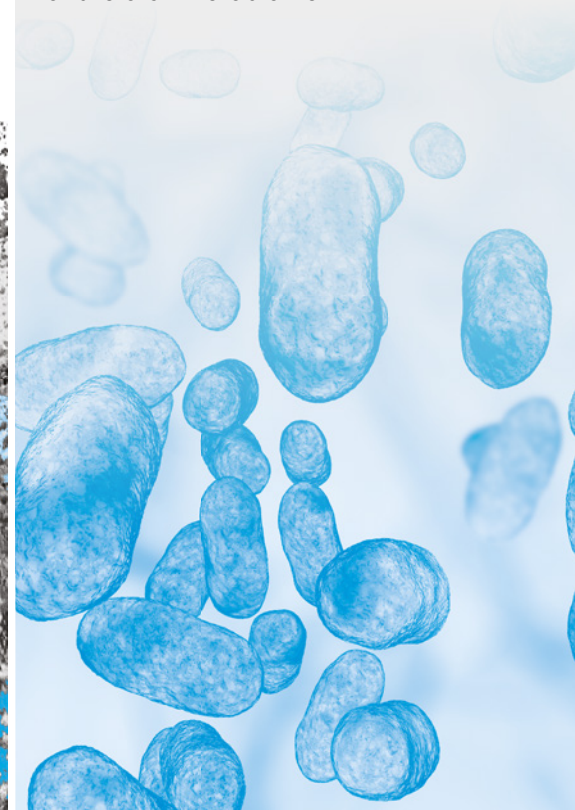
ProlacSan®

The lactic acid bacteria in ProlacSan®, *Lactobacillus Brevis*, and *Plantarum*, are strains of bacteria specially selected and tested for use in the oral cavity. They are originally found in the oral cavity of children with a good oral status despite living in areas of the world without preventive dental care.

One ProlacSan® lozenge contains a minimum of 1 billion live lactic acid bacteria, comparable in numbers to the bacteria found in 100 liters of yogurt, but very carefully chosen and specific for use in the oral cavity.

We recommend one a day.

The probiotic bacteria adhere to the biofilm and form a natural part of the oral microbiome.



ProlacSan®

is the probiotic
for bacterial
replacement in
dentistry.

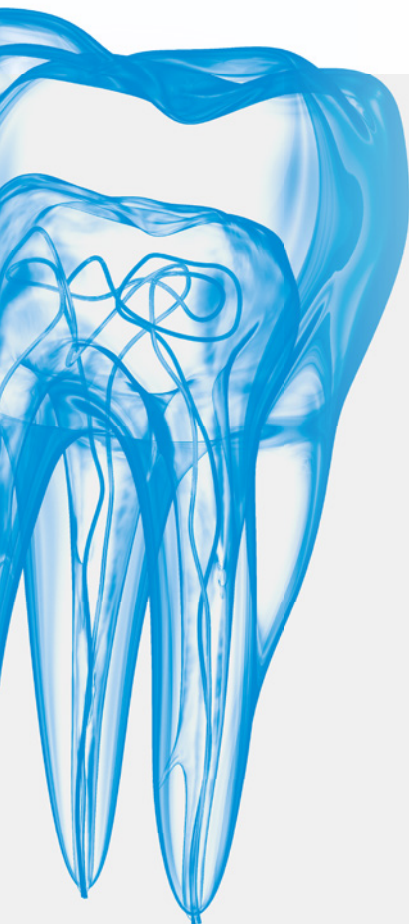
ProlacSan®
can help
maintain a
**healthy oral
cavity** with the
**proper bacterial
balance.**

ProlacSan® strengthens the biofilm in the oral cavity and may benefit patients with oral cavity problems caused by one of the following conditions:

- Diabetes
- Periodontitis
- Halitosis
- Canker sores
- Xerostomia

Medical treatments can also upset the bacterial balance in the oral cavity. This is seen in patients taking:

- Asthma medication
- Antibiotics
- Chemotherapy.



CMS Dental has been manufacturing dental products for satisfied customers worldwide for more than 25 years. Safety, precision, and efficiency are our core values and should be the focus when dealing with patient care. The goal has always been to keep it simple to make treatments safe and dental choices easy. The less technical, the easier it is to work with the products and the less stressful it is for the patients. CMS Dental has expertise in biofilm control, endo products, and light curing.

Sustainability:

CMS Dental is a family-owned company with production facilities in Denmark. The company has a top priority on recycling raw materials and has done so since the very beginning 25 years ago. The company, therefore, recycles materials as much as possible without compromising on the quality of its products. CMS Dental aims to achieve greater sustainability in production through further recycling and choosing specialized partners in the local area.

More information:

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