

Oral Health

SP 1

# For a confident Smile

CultureScience  
Clinically Tested



Dental caries remains one of the most widespread oral health challenges, affecting up to 90% of school-age children and consuming up to 10% of healthcare budgets in industrialized countries. Prevention is no longer optional; it's a strategic opportunity for brands to deliver solutions that combine efficacy, safety, and differentiation.

Probiotics are emerging as a **next-generation approach to oral care**. Acting locally, they help counter harmful bacteria such as *Streptococcus mutans*, while

also modulating inflammatory responses to support gum health and overall oral comfort.

**SP 1** stands out as a **clinically validated ingredient that reduces caries severity in children** and promotes a balanced oral microbiota. Its dual action, antagonizing pathogens and calming inflammation, makes SP 1 an ideal choice for premium formulations targeting family oral health, offering science-backed benefits that consumers trust.



### An Innovative Approach to Oral Care

Unlike traditional solutions that sanitize the mouth but allow pathogens to recolonize, SP 1 offers a natural, resilient strategy, supporting long-term oral health through microbiota balance.



### Clinically Proven Caries Prevention

SP 1 is backed by clinical evidence showing a reduction in caries severity, fewer newly developed caries, and prevention of first cavitated lesions, delivering meaningful protection for children's oral health.



### Dual Action for Oral Wellness

SP 1 combines local action against harmful bacteria with systemic immune modulation, helping maintain a balanced oral microbiota and reducing inflammation for healthier teeth and gums.



### Kid-Friendly and Easy to Formulate

SP 1 is ideal for family oral care products. It can be integrated into chewable tablets or orosoluble sticks, making daily use simple and enjoyable for children.

VEGETARIAN

HYPOALLERGENIC

HALAL

GMO FREE

GLUTEN FREE

KOSHER

## How SP 1 supports oral health

SP 1 helps protect oral health through a **dual-action approach**. First, it **acts directly against harmful bacteria** such as *Streptococcus mutans*, the main responsible behind dental caries, limiting their ability to form biofilm and damage enamel.

Second, SP 1 supports a balanced oral microbiota and **interacts with the immune system to reduce inflammation**.

Clinical studies show that SP 1 significantly lowers levels of human  $\beta$ -defensin-3 (H $\beta$ D-3), a key marker of oral infection, by nearly 80% compared to placebo. This reduction indicates a healthier, more stable environment in the mouth, helping maintain natural protection and comfort.

By combining local action with systemic immune modulation, SP 1 offers a natural, science-backed solution for stronger teeth and healthier gums.

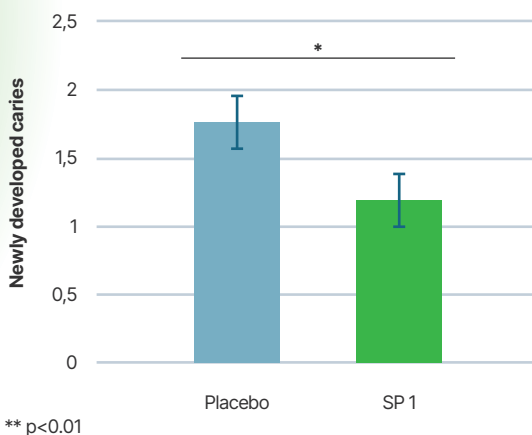
## SP 1 clinical evidence

247  
children

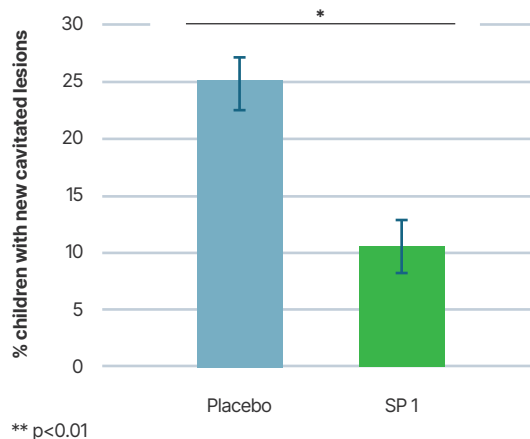
1.5 Bn  
CFU/day

10 months  
Treatment Time

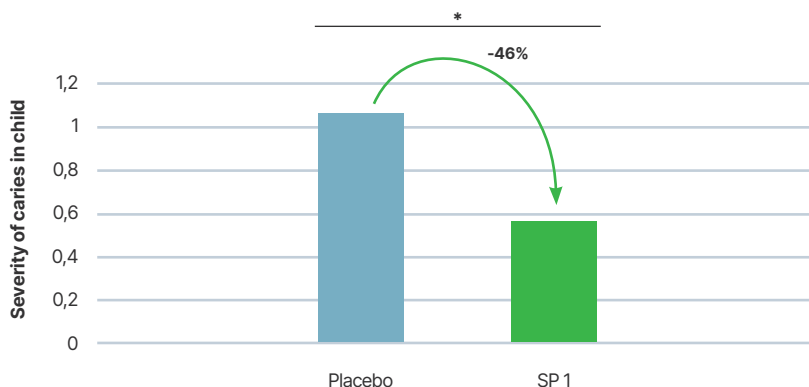
### Reduces the number of new caries development



### Prevents the first insurgence of cavitated lesions



### Reduces the inflammatory response induced by H $\beta$ D-3 release, associated to caries formation



\*statistically significant difference

[1] Anderson M. *Pediatr Dent.* 2002 Sep-Oct;24(5):377-85. - [2] Kaźmierczyk-Winciorek M et al. *Cent Eur J Immunol.* 2021;46(1):99-104. [3] Sandoval F et al., *Clin Oral Investig.* 25(6):3823-3830 (2021)

Each of the names of the products, ideas, brands, trademarks and logos mentioned in this document, however presented (i.e. displaying the ® or TM symbol, written in bold or large print, etc.), are either property of SaccoSystem, owned by an affiliate or covered by a licensing agreement. What is presented in this document as a trademark may not be such in your specific country, notwithstanding the potential presence of the ® symbol, due to national registration regulations and processes. This information is intended for business to business and Healthcare professionals' communication for specific ingredients for food, beverage, and supplement producers. The statements and information contained herein are not intended for final consumers of finished products. Any claims made for consumers remains the sole responsibility of the marketer of the finished product. This information is provided "as is" and its use is at the recipient's sole discretion and risk. The statements made within this information have not been evaluated by the Food and Drug Administration. These statements and the products of this company are not intended to diagnose, treat, cure or prevent any disease. The introduction of the Product into a market outside the European Union is the sole responsibility of the purchaser. The purchaser must ensure, among other things, that the Product fully complies with the applicable laws and regulations of the relevant territory and fulfills all necessary obligations for lawful market introduction.