

## Probiotics **LacCaries™ ADP-1**

### Perfect Teeth by Innovative Biotechnology

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#### Fact Sheet:

- World Health Organization (WHO) ranked caries as the 3rd leading noncommunicable disease, after cancer and cardiovascular diseases. Dental caries remains a major oral health problem in most industrialized countries, affecting 60-90% of school children and the vast majority of adults. It is also the most prevalent oral disease in Asian and Latin countries (The World Oral Health Report, WHO 2003).
- 30 % of young adults and more than 80 % of people over the age of 65 are affected by periodontal disease.
- The cost of treating dental diseases exceeds cardiovascular disease, cancer and osteoporosis in industrialized countries (WHO Technical Report, 2003).

⇒ **Teeth-cleaning and anti-caries biotech products are in demand**

#### **Natural and Safe Anti-bacterial Formulation**

##### **~ Probiotics ~**

During the growth of probiotics, anti-microbial substances will be produced. As proven by clinical studies, certain probiotics can inhibit the growth of *Streptococcus mutans*, the bacteria most commonly associated with dental caries.

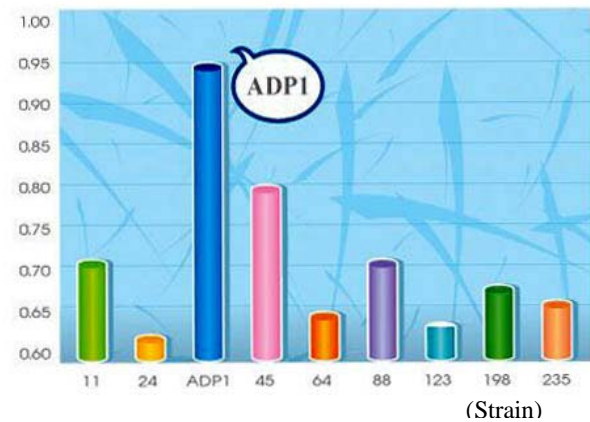
- The study by Professor Yasuhiro Koga of Tokai University School of Medicine in Japan revealed the bactericidal effect of probiotics "LS1" (*Lactobacillus salivarius* TI2711) on periodontal pathogens, which leads to symptom improvement of periodontal disease as well as foul breath. (*J Jpn Soc Periodontol.* 2003; **45**:105-112.)
- Researchers in Finland demonstrated that the growth of caries-causing bacteria decreased significantly in adults who consumed probiotic-containing cheese for three weeks (*Arch Oral Biol.* 2002 Nov; **47**(11):799-804.)
- A clinical study in Mexico with 245 seven-year-old children enrolled showed that the incidence rate of dental caries in the experimental group (who were given chewable tablets containing heat-killed probiotics once a week for 16 weeks) was reduced by 42% when compared to that of the control group after two years of follow-up monitoring (*Pract Odontol.*1990 Jul; **11**(7):37-9, 42-3, 45-6.)

*LacCaries™ ADP-1 Dietary Supplement ... The Leading Functional Probiotics*

- ▶ **As proven by efficacy test, LacCaries™ ADP-1 can effectively fight against dental plaque and inhibit the growth of caries-causing bacteria**

Based on a rigorous screening of more than 300 strains of probiotics, the *Lactobacillus paracasei* strain ADP-1 was selected for its effectiveness in growth inhibition of caries-causing bacteria. **LacCaries™ ADP-1** offers one of the best protections available from nature against caries and periodontal diseases.

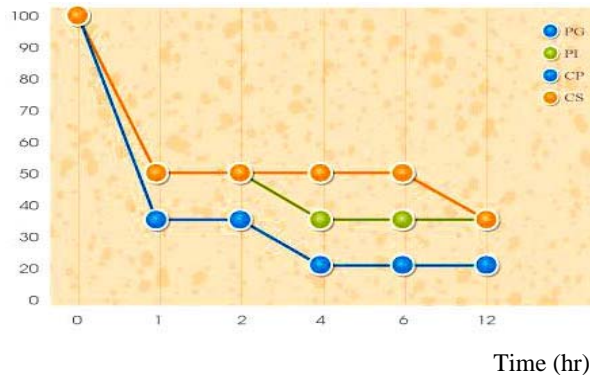
Ability to Inhibit the Growth of Caries-causing Bacteria



- ▶ **LacCaries™ ADP-1 also effectively inhibits and prevents the growth of periodontal pathogens**

As shown in efficacy study, probiotics strain ADP-1 inhibited all periodontal pathogens tested, and rapidly reduced the number of periodontal pathogens by more than 50% within one hour. The bactericidal effect of ADP-1 lasted more than 12 hours.

Reduction of periodontal pathogens



*Porphyromonas gingivalis* (PG), *Prevotella intermedia* (PI), *Centipeda periodontii* (CP) and dental plaque sample collected from teeth with periodontal disease (CS).

▶ **Product Information**

- **Awards:** Product made by cGMP-certified manufacturer who received Taiwan's **National Innovation Award** and **National Biotechnology & Medical Care Quality Award** in 2006 & 2007, respectively.
- **Ingredient:** Probiotic strain *Lactobacillus paracasei* ADP-1 (heat-inactivated).
- **Other ingredients:** Xylitol, acesulfame potassium, sorbitol, mint & lemon flavor.
- **Recommended use:** Dissolve 1 tablet in mouth 3 times a day, preferably after each meal.
- **Caution:** Consult a health care profession prior to use if you have any medical conditions.
- **Shelf-life:** 2 years.
- **Storage:** Store in a cool, dry place at room temperature or below.

▶ **Features**

- Natural probiotic effectively inhibits periodontal pathogens, as shown by the study of Chung Shan Medical University (Taichung, Taiwan).\*
- Inhibits caries-causing bacteria *Streptococcus* and reduces dental plaque formation.\*
- Maintains long-lasting and refreshing breath.

\*These statements have not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure or prevent any disease.