

ProbioMax[®] ENT and ProbioMax[®] ENT for Kids

Probiotic for Ear, Nose, and Throat Health*



Available in 30 tablets

Clinical Applications

- » Promotes Oral Health*
- » Supports the Natural Immune Defenses of the Ears, Nose/ Nasopharynx, and Throat*
- » Supports Healthy Immune Function*
- » Naturally Promotes Fresh Breath*

*ProbioMax[®] ENT and ProbioMax[®] ENT for Kids are chewable, strawberry-flavored probiotic formulas that activate in the oral cavity for support of ear, nose, and throat health and to naturally promote fresh breath. As you chew, each tablet releases the ENT-12™ strain of Streptococcus salivarius, a beneficial bacterium that normally occurs in a healthy oral cavity. S salivarius adheres to cells in the cavity and positively affects the bacterial population and natural immune defenses therein. Once established, S salivarius ENT-12 also naturally counteracts the production of volatile sulfur compounds that can cause bad breath.**

Discussion

The oral cavity is home to a plethora of naturally occurring bacteria. Some of these microorganisms are an important aspect of maintaining good health and serve as a first line of defense. *Streptococcus salivarius* is one of the most numerous of these “good” bacteria found in the mouths of healthy individuals. It is becoming more evident that a healthy balance of bacteria in the mouth and promoting the presence of specific strains of certain bacteria in it may be important for throat, nasopharyngeal, and middle ear health.*^[1-4]

Strain ENT-12™ *S salivarius* ENT-12™ (also known as ATCC BAA-1 024 or DSM 13084), found in ProbioMax ENT and ProbioMax ENT for Kids, was discovered and isolated by renowned microbiologist Professor John Tagg at the University of Otago in New Zealand. Spurred by his own experiences as a youth, he was determined to find a natural and proactive way to help support throat health, especially in children. Dr. Tagg followed New Zealand school children for many years, analyzing their saliva samples and looking for differences. A breakthrough came when Dr. Tagg and his team isolated the unique ENT-12 strain of *S salivarius* from a healthy child who, over a six-year period, exhibited remarkable throat health. Work was then begun to develop this strain for use as an advanced probiotic in the wellness market. ENT-12 is an extremely safe yet powerful strain that has been deposited in culture collections.*^[5-7]

ENT-12 has been shown to adhere to cells of the oral cavity and populate therein.^[4,8-10] Not only does this strain exert its benefits through the typical colonization or “power in numbers” method, but it also produces several bioactive peptides, including salivaricin A and salivaricin B, that support oral health.*^[4,8,11,12]

Ear, Nose/Nasopharynx, and Throat Health ProbioMax ENT and ProbioMax ENT for Kids represent a new “bioprotic” approach; that is, using probiotics to enhance health in non-intestinal sites for specific applications.^[8] ENT-12 promotes healthy levels of beneficial oral microorganisms, and thereby supports upper respiratory health.^[9] Studies suggest that children with naturally occurring *S salivarius*

ENT-12–like strains are better able to maintain healthy mouth and throat microbial populations. Preliminary studies performed in children and adults have shown that supplementation with ENT-12 has a statistically significant impact on throat, tonsil, and middle ear health.^[4,8] In addition, preliminary in vitro and animal data from a 2012 study suggest that ENT-12 positively affects the presence of *Candida albicans* in the oral mucosa and may inhibit its attachment to denture acrylic resins.*^[13]

Fresh Breath The predominant microbiota on the tongue of subjects with and without bad breath differs.^[14] When certain bacteria break down proteins on the tongue, volatile sulfur compounds (VSC) that cause bad breath are released. In a placebo-controlled trial, Burton et al showed that administration of the ENT-12 strain in 13 subjects resulted in a substantial decrease in VSC levels compared to controls.^[15] The introduction of ENT-12 helps balance the microflora of the mouth because it competes with the sulfur-producing bacteria for space while leaving room for more good bacteria to flourish.^[15-17] This method of supporting a microbial population that limits the activities of sulfur-producing bacteria gets to the source of bad breath.^[15,16] Addressing bad breath at its source can provide longer-lasting results than methods that simply mask odors.*

For Best Results ProbioMax ENT or ProbioMax ENT for Kids tablets should be chewed slowly and thoroughly, ideally after the patient’s oral hygiene routines (e.g., brushing, flossing, rinsing). Waiting until the tablet is completely dissolved before swallowing is optimal. The tablets do not contain cariogenic sugars or other ingredients that could negatively affect dental health.

*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.

ProbioMax® ENT Supplement Facts

Serving Size: 1 Tablet

	Amount Per Serving	%Daily Value
ENT-12™ (<i>Streptococcus salivarius</i> DSM 13084)	10 mg [†] (1 Billion CFU [‡])	**
** Daily Value not established.		

Other Ingredients: Xylitol, natural strawberry flavor (no MSG), ascorbyl palmitate, microcrystalline cellulose, citric acid anhydrous, and silica.
[†]Formulated with 20 mg (2 Billion CFU) at time of manufacture
[‡]Colony-Forming Units

DIRECTIONS: As a maintenance dose, after your bedtime oral hygiene routine chew one tablet slowly and completely before swallowing. During periods of increased need, chew up to five tablets per day in divided dose for 90 days, or as directed by your healthcare professional.

Consult your healthcare practitioner prior to use. Individuals taking medication should discuss potential interactions with their healthcare practitioner. Do not use if foil is punctured.

STORAGE: No refrigeration necessary. Store in a cool, dry place out of reach of children.

DOES NOT CONTAIN: Wheat, gluten, soy, animal or dairy products, fish, shellfish, peanuts, tree nuts, egg, ingredients derived from genetically modified organisms (GMOs), artificial colors, artificial sweeteners, or artificial preservatives.

ProbioMax® ENT for Kids Supplement Facts

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Not recommended for children aged 4 or younger without the direct recommendation and supervision of a healthcare practitioner. This product should be administered by an adult. Pregnant or lactating women should consult their healthcare practitioner prior to use. Do not use if foil is punctured.

STORAGE: No refrigeration necessary. Store in a cool, dry place out of reach of children.

DOES NOT CONTAIN: Wheat, gluten, soy, animal or dairy products, fish, shellfish, peanuts, tree nuts, egg, ingredients derived from genetically modified organisms (GMOs), artificial colors, artificial sweeteners, or artificial preservatives.

References

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Additional references available upon request

All XYMOGEN® Formulas Meet or Exceed cGMP Quality Standards.

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