Probiotic Ear, Nose, Throat is a chewable, strawberry-flavored probiotic formula that activates 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 DSM 13084 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 DSM 13084 also naturally counteracts the production of volatile sulfur compounds that can cause bad breath.*

**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*

**Probiotic Ear, Nose, Throat**

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.*

**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.*

**Strain DSM 13084**

*S. salivarius* DSM 13084 (also known as ATCC BAA-1 024), found in Probiotic Ear, Nose, Throat, 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 DSM 13084 strain of *S. salivarius* from a healthy child who, over a six-year period, exhibited remarkable throat health. Work then began to develop this strain for use as an advanced probiotic in the wellness market. DSM 13084 is an extremely safe yet powerful strain that has been deposited in culture collections.*

DSM 13084 has been shown to adhere to cells of the oral cavity and populate therein. 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.*

**Ear, Nose/Nasopharynx, and Throat Health**

Probiotic Ear, Nose, Throat represents a new “bioprotic” approach; that is, using probiotics to enhance health in non-intestinal sites for specific applications. DSM 13084 promotes healthy levels of beneficial oral microorganisms, and thereby supports upper respiratory health. Studies suggest that children with naturally occurring *S. salivarius* DSM 13084-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 DSM 13084 has a statistically significant impact on throat, tonsil, and middle ear health. In addition, preliminary in vitro and animal data from a 2012 study suggest that DSM 13084 positively affects the presence of *Candida albicans* in the oral mucosa and may inhibit its attachment to denture acrylic resins.

**Fresh Breath**

The predominant microbiota on the tongue of subjects with and without bad breath differs. 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 DSM 13084 strain in 13 subjects resulted in a substantial decrease in VSC levels compared to controls. The introduction of DSM 13084 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. This method of supporting a microbial population that limits the activities of sulfur-producing bacteria gets to the source of bad breath.* Addressing bad breath at its source can provide longer-lasting results than methods that simply mask odors.*

**For Best Results**

Probiotic Ear, Nose, Throat 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.
Probiotic Ear, Nose, Throat

Supplement Facts

<table>
<thead>
<tr>
<th>Serving Size: 1 Tablet</th>
<th>Servings Per Container: 30</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Amount Per Serving</th>
<th>% Daily Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Streptococcus salivarius DSM 13084) 1 Billion CFU† (10 mg)‡</td>
<td>- -</td>
</tr>
<tr>
<td>Daily Value not established.</td>
<td></td>
</tr>
</tbody>
</table>

Other Ingredients: Xylitol, natural strawberry flavor (no MSG), ascorbyl palmitate, citric acid anhydrous, silica, and medium-chain triglycerides.

‡Formulated with 2 Billion CFU (20 mg) at time of manufacture

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.

Children and pregnant or lactating women should consult their healthcare practitioner prior to use. Do not use if foil is punctured.

References


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 preservatives.

*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.