



*Valens Salival*

# DRY MOUTH RELIEF

**Lemon-flavored oral spray**

Moisturizes the oral cavity &  
stimulates salivary glands

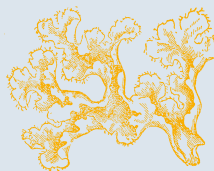




# Valens Salival

*Oral spray for instant mouth hydration*

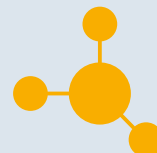
Rich blend of **clinically proven** active ingredients for **moisturizing the oral cavity** and **alleviation of dry mouth**:



Iceland moss



Biotin



Betaine



Glycerol and xylitol

# Advanced formula

## Betaine



Betaine or **trimethylglycine (TMG)** is a naturally occurring compound often derived from **sugar beets**. It is known for its **hydrating properties** and is commonly used in various cosmetic and **oral care products**.

Betaine can be synthesized in the body, where it plays several important roles, particularly in **osmoregulation**.

**Products with a 4% concentration of betaine have been proven effective in alleviating subjective feelings of dry mouth or moisturizing the oral mucosa [1,2].**



## Biotin



Biotin, also known as **vitamin B7**, is a water-soluble vitamin, important for various metabolic processes in the human body. It is particularly known for its benefits related to skin, hair, and nail health, but it also has significant implications for **oral health and hydration**.

**EFSA approved health claim:**  
**Biotin contributes to the maintenance of normal mucous membranes.**

# Advanced formula

## Iceland Moss



Iceland moss (*Cetraria islandica*) is a **lichen** known for its medicinal properties and potential health benefits, such as soothing and **antimicrobial effects**.

It contains substances (polysaccharides lichenin and isolichenin) that form **mucilage in aqueous solutions** and have **antimicrobial properties** in acids [3]. The mucilage forms a protective layer on the mucous membranes of the mouth and throat, thus moisturizing and soothing them.

**Iceland moss is an advisable therapeutic opportunity without interactions and side effects for the treatment of inflammation of the oral mucosa occurring after nasal surgery [4].**



## Xylitol



Xylitol is a **sugar alcohol**, naturally occurring in plants and fruits and typically used as a **sweetener**. Its unique properties contribute to dental health and metabolism (**prebiotic effect and osmoregulation**).

**EFSA approved health claim: Xylitol contributes to the maintenance of tooth mineralization.**

Xylitol inhibits the growth of harmful bacteria in the mouth, particularly *Streptococcus mutans*, which is a primary contributor to tooth decay. By reducing acid production and maintaining normal pH, it helps prevent cavities [5]. It also helps stimulate the salivary glands and increases saliva production, which cleanses the oral cavity, and maintains the proper pH [5].

# Advanced formula

## *Glycerol*



Glycerol, also known as **glycerin**, is a simple polyol compound that serves various essential functions in the body and is widely used in food, pharmaceuticals, and cosmetics.

Glycerol is a component of cell membranes. It can **attract and retain water**. This characteristic makes it useful in maintaining moisture levels in tissues.

**It forms a protective film over the mucous membranes, which aids in maintaining moisture and protecting against irritation.**

**Glycerol mimics the lubricating properties of saliva, helping to maintain a moist environment in the mouth.**

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# Dosage

## *Recommended daily dose*

- 4 sprays

## *Directions*

- Shake well before each use
- Consume anytime in the day, when required, even in the nighttime
- Repeat the dose as needed, up to 4 times

*The bottle contains:*

*30 daily  
doses*

(Active) ingredients	per 4 sprays
Betaine	32.5 mg
Iceland Moss Dry extract	20 mg
Biotin	10 mcg
Xylitol	
Glycerol	

# Advantages at a glance

- Convenient and small oral spray format
- Easy, fast and accurate dosing
- Clinically supported ingredients
- Sugar-free formula
- Pleasant lemon taste
- Sweetened with teeth-friendly xylitol
- Suitable for nighttime use
- Made in IFS and GMP-certified facility in EU





# Functions of saliva

Saliva is a clear, watery fluid produced and secreted by the salivary glands in the mouth. It plays a crucial role in **maintaining oral health** and **facilitating digestion**.

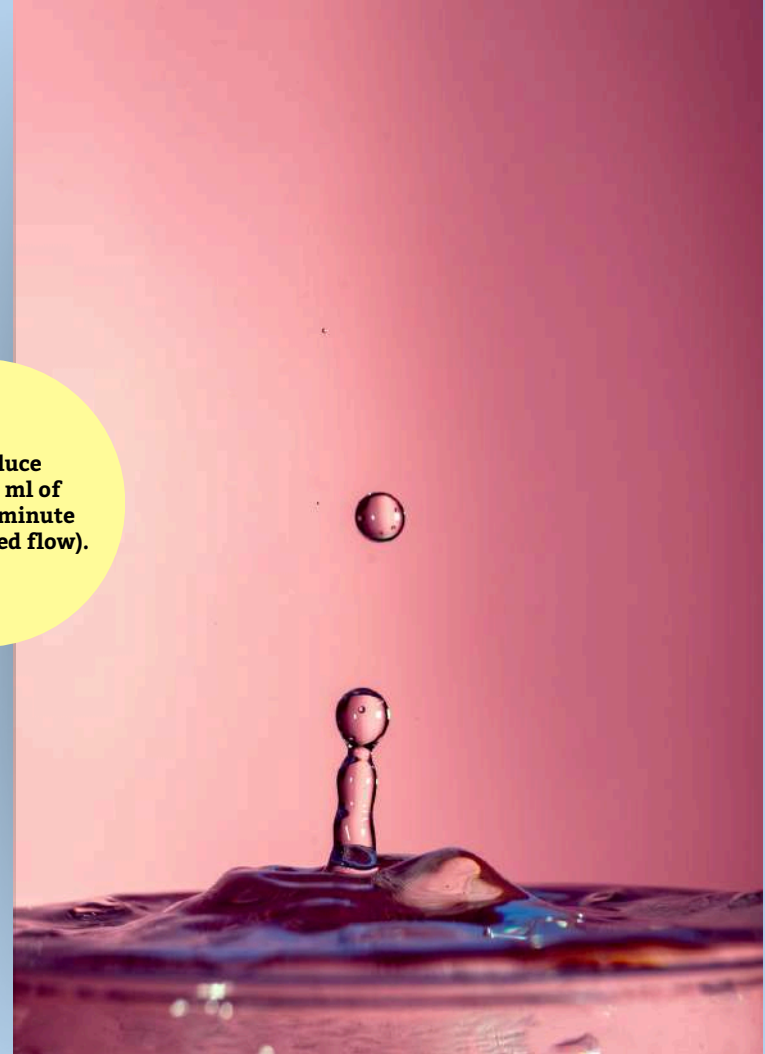
## *Composition*

- **Water (99%)** which helps to keep the mouth moist
- **Electrolytes** (sodium, potassium, calcium, magnesium)
- **Proteins and enzymes**

## *Functions [6, 7, 8]*

- **Digestion** - enzymes in saliva initiate the breakdown of some nutrients
- **Lubrication** - easier to chew and swallow
- **Oral hygiene** - cleanses the mouth
- **Protection of teeth** - increases pH, neutralizes acids produced by bacteria in the mouth, **contributes to mineralization**.
- **Taste** - dissolves food particles, allowing them to interact with taste receptors on the tongue.
- **Speech**

We produce  
0.25-0.35 ml of  
saliva per minute  
(unstimulated flow).





# Xerostomia

= *Dry mouth*

A condition characterized by a **dry feeling in the mouth**, caused by:

- A decrease in saliva production (inactive salivary glands)
- Subjective feeling of oral dryness despite the salivary gland function - **pseudo xerostomia**

It affects a significant portion of the population (10-30%) and is caused by:

- **Medical conditions:** Sjogren's syndrome, diabetes, Alzheimer's etc.
- **Aging:** Especially common in women in menopause
- **Medications and treatments:** radiation, chemotherapy, antihistamines, decongestants, painkillers, diuretics, and medications for high blood pressure etc.
- **Lifestyle factors:** smoking, excessive alcohol consumption etc.



# References

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