



A healthy smile starts with great ingredients

Go above and beyond your standard formulations: naturally and vegan. Jungbunzlauer offers a broad spectrum of COSMOS and NATRUE certified, bio-based ingredients for oral care.

Positive impact of ERYLITE® Erythritol on oral biofilm

Bacterial biofilm formation on the tooth surface is associated with oral conditions like tooth decay and periodontitis. Controlling the activity of undesirable bacterial species like *Streptococcus mutans* is an effective way to support oral health.

- ERYLITE® has a significant impact on biofilm growth
- ERYLITE® has a similar performance as xylitol
- ERYLITE® is a non-cariogenic, natural sweetener for oral care products
- ERYLITE® is safe for use in products for humans and animals



Natural preservation support with Zinc Lactate (or salts)

Preservatives ensure safety and shelf stability of oral care products by protecting them against the growth of microorganisms during transit storage and daily use. Zinc Lactate offers natural preservation support, combined with oral health benefits.

- Zinc salts reduce the rate of bacterial adherence to teeth and may counteract volatile sulphur compounds that cause bad breath
- Zinc lactate offers antimicrobial properties and enables preservative-free formulations
- Zinc lactate is multifunctional and allows for cleaner label

Multifunctional formulation of tooth tabs

Tooth tabs are a compact alternative format to toothpaste not only for travellers but for everyone. The solid, water-free formulation allows us to eliminate plastic packaging and preservatives.

- **ERYLITE®** is a natural sweetener with pleasant taste and benefits for oral health
- **CITROCOAT® EP** is a novel effervescent compound leading to faster disintegration and better compressibility
- **Xanthan gum** is a natural thickener that provides a pleasant mouth feel and supports foam formation
- **Zinc salts** offer antimicrobial, anti-plaque and anti-tartar properties



Texture optimisation of toothpaste with Xanthan Gum

Xanthan Gum is an effective, bio-based hydrocolloid with exceptional rheological behaviour, making it ideal to replace synthetic thickeners and stabilisers. **Jungbunzlauer** offers different grades of **xanthan gum**, tailored to meet your formulation needs.

- **Xanthan gum** is effective at low usage rates, offering both excellent stability and shear thinning properties
- **Xanthan gum** shows excellent water-binding capacity and high compatibility with other ingredients in oral care
- Choose your preferred **xanthan gum** particle size, clarity and rheological profile

Stabilisation of stannous fluoride

Stannous fluoride protects teeth against decay, plaque, erosion, gingivitis and hypersensitivity. **Sodium gluconate** effectively stabilises stannous fluoride in toothpaste formulations to preserve its superior properties.

- **Sodium gluconate** is a sustainable alternative to other stabilising agents
- **Sodium gluconate** is COSMOS and NATRUE certified and readily biodegradable
- **Sodium gluconate** brings further benefits to the formulation due its chelating, off-taste masking and pH buffering properties



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The information contained herein is meant to demonstrate how our products can be used. This formulation has been subjected to limited stability tests and has been shown to perform well. The given data are suggestions without any guarantee aimed to support customers' development.