Sugar reduction + oral health benefits:

erythritol's multi-faceted appeal



With zero calories, sugar-like sweetness and versatile functionality, erythritol has long been a valuable tool for sugar reduction. Scientific research also suggests that it may contribute to better oral health.

Sweetness without sugar



Zero calories



Clean, sugar-like taste



Suitable for people with diabetes



Synergies with stevia; masks off-flavors

Promoting brighter smiles

Studies over the past several decades have found that erythritol does not contribute to tooth decay and can offer distinct advantages compared to other polyols.1

Reduces 3 factors contributing to tooth decay:2

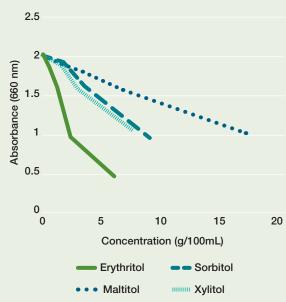






More effective at inhibiting bacterial growth

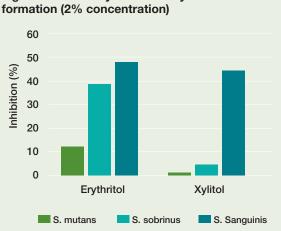
Fig 1. Effects of erythritol and polyols on growth inhibition of S mutans in vitro after 5 hours



Adapted from Makinen, et al; 2005 and Makinen, et al; 2001.

Reduces biofilm formation, adhesion4

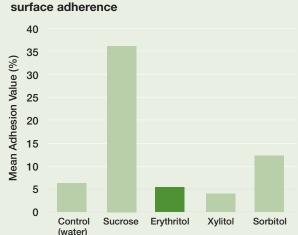
Fig 2. Effects of erythritol and xylitol on biofilm



S. mutans, S. sobrinus, S sanguinis are common cariogenic bacteria.

Adapted from Ghezelbash, et al; 2012.

Fig 3. Effects of erythritol & polyols on bacterial



Adapted from Park, et al; 2014.

Clinical study suggests long-term benefits⁵

Randomized, double-blind, controlled trial of 374 children aged 8–9 years at beginning of trial.

Effects of erythritol on fresh plaque weight



Adapted from Honkala, et al., 2014.

Over the 3-year period, erythritol group had:

- Significantly fewer tooth surfaces developing into enamel or dentin caries
- 143 fewer dental treatments/restorations compared to control

Learn more - get the full report.

A scientific overview: Compelling evidence for erythritol oral health benefits

SOURCES:

- ¹ Makinen, KK; Saag, M; Isotupa, KP; et al. "Similarity of the Effects of Erythritol and Xylitol on Some Risk Factors of
- Dental Caries," Caries Research, vol. 39, no. 3, pp. 207-215, 2005. ² Park, Y-N; Jeong, SS; Zeng, J. et al., "Anti-Cariogenic Effects of Erythritol on Growth and Adhesion of Streptococcus Mutans," Food Science and Biotechnology, vol. 23, no. 5, pp. 1587-1591, 2014.
- 4 Ghezelbash, GR; Nahvi, I; Rabbani, M. "Comparative Inhibitory Effect of Xylitol and Erythritol on the Growth and Biofilm Formation of Oral Streptococci," African Journal of Microbiology Research, vol. 6, no. 20, pp. 4404–4408, 2012.
- ⁵ Štšepetova, J; Truu, J; Runnel, R; Nõmmela, R; Saag, M; Olak, J; Nõlvak, H; Preem, JK; Oopkaup, K; Krjutškov, K; Honkala, E; Honkala, S; Mäkinen, K; Mäkinen, PL; Vahlberg, T; Vermeiren, J; Bosscher, D; de Cock, P; Mändar, R. "Impact of Polyols on Oral Microbiome of Estonian Schoolchildren." BMC Oral Health. 2019 Apr 18;19(1):60. doi: 10.1186/s12903-019-0747-z. PMID: 30999906; PMCID: PMC6471963.



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