



Teeth are in health with...

GLYCALDENT™

The Last Frontier in Cariostatic Action,
Preventative Effect and Enamel Protection



ND Pharma & Biotech

Product Technical Information



www.ndpharmabiotech.com



Tooth decay starts with the demineralization of the enamel, the hard tissue that appears above the gum and consist primarily of the minerals Calcium and Phosphate. Bacteria coming from dental plaque through a mechanism called acid attack ferments sugars and other carbohydrates from food, producing organic acids that decomposes enamel and creates erosive cavities, a phenomenon of teeth destruction so-called *caries*.

GLYCALDENT™ is a proprietary formula based on amorphous calcium phosphorous source that has several demonstrated functions in the field of oral hygiene and care, in special as enamel protector, re-mineralization and potential erosion reduction from caries and other sugar-derived fermentation that affects the tooth both in children and adults.

A photograph showing several hands of different skin tones holding up large, colorful, 3D-style letters that spell out the word 'Benefits'. The letters are in various colors: 'B' is red, 'e' is green, 'n' is blue, 'e' is yellow, 'f' is purple, 'i' is yellow, 't' is red, and 's' is red. The hands are positioned below the letters, holding them up from the bottom.



- Prevents and partially reverses early tooth decay.
- Inhibits plaque formation and the growth of harmful bacteria.
- Strengthens teeth deep into the enamel with calcium and phosphate with higher bioavailability.
- Reduces the erosion of teeth from acid attacks from food ingestion, reflux and grinding.
- Reduces sensitivity from bleaching procedures.
- Enhances whitening effectivity.
- Restores tooth nice appearance and youthful healthy smile.
- Adds oral lubrication when saliva flow is reduced by any condition.
- Supplementation of lost minerals in saliva reduction phases.

From as low as 0.5%-1% GLYCALDENT™ may be used in solids, pastes, gels, drinks, clear solution-liquids and many other finished products without impact in organoleptic attributes of such products. Do not alters taste, texture, odour or flavour.

As a source of bio-available Calcium, Phosphorous and other minerals, GLYCALDENT™ has a definitive impact on the remineralisation of enamel. As FCC – Conformed ingredient is able to be part of any food/feed product as well as elaborated ones. In the US the ingredients of GLYCALDENT™ are classified as GRAS (Generally Recognized as Safe) with indications of certain abrasive teeth cleaning and treatment of tooth sensitivity.



GLYCALDENT™ ingredients and formula are able to help in certain cases as those where an extra protection for teeth is needed, including people in dental high-risk as pregnant women, immune-compromised persons as those under chemotherapy, etc.

In other countries, ingredients as those present in GLYCALDENT™ fall also within the category of Foods For Special and Health Use, when added to sugar-free gum to prevent caries derived cavities and to contribute to make teeth more resistant by mechanisms as retarding de-mineralisation and the improvement of acid resistance through acid-resistant re-mineralisation action over the teeth.

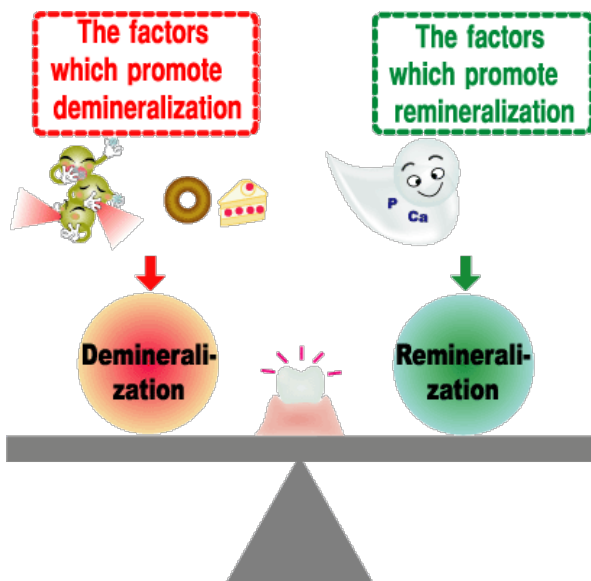
The healing of a cavity involves 're-mineralizing' the affected tooth; a process also referred to as 'arrested decay.' Re-mineralizing a tooth doesn't mean the damaged tooth grows back. However, through re-mineralization, the tooth can return to its normal function and stop, or 'arrest' further decay.

Re-mineralization does not involve the 'recovery' of the damaged tooth. Instead, re-mineralization plays a preventative role. The decay is stopped, and the tooth is protected from further damage. The point is, re-mineralization can save a tooth and return it to its normal function.



Healthy Enamel

Damaged Enamel



GLYCALDENT™ contains a high concentration of Calcium and Phosphate ions that may be deposited at tooth surface and being disseminated into sub-surface lesional areas that are not yet affected by cavity to re-crystallize enamel through an addition of minerals to enamel and into, for a better re-mineralization and eventually repair process.

YEARS OF RESEARCH, EXPERTISE AND SCIENCE AT YOUR SERVICE

When talking about confidence and ingredient's experience in research, development, formulation and building ultra-premium quality brands, you have to be careful in the selection of a partner.

When you choose ND Pharma & Biotech Co. you will take top profit from the top service we offer and the decades of science and production capabilities that are behind our reputation and excellence.

With a complete portfolio of +200.000 product references, we are leaders not just as sourcing & supply of Ingredients, Intermediates and Raw Materials, but also in Formulation, Manufacturing & Branding to keep you up to the success.



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