Tooth Chemistry

$Ca + PO_4$ Saliva ⟹

Contains Recaldent™

PROSPEC™

MI Paste

***PRO**fessionally **SPEC**ified Tooth Treatment*
Delivering Bio-Available Calcium and Phosphate

Teeth need calcium, phosphate and fluoride. Healthy saliva contains these minerals, and in conjunction with certain salivary proteins is able to deliver bio-available calcium and phosphate to the tooth surface during the demineralization/remineralization process. Calcium and phosphate are known to help:

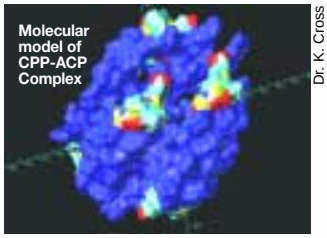
- Strengthen tooth enamel.
- Reverse white spot lesions.
- Buffer plaque acid.
- Reduce sensitivity.

PROSPEC MI Paste contains Recaldent®. The Recaldent Technology has a unique ability to deliver bio-available calcium and phosphate when they are needed most. PROSPEC MI Paste binds calcium and phosphate to tooth surfaces, plaque and surrounding soft tissue. The Recaldent technology releases the calcium and phosphate when a patient's saliva is acid challenged by the normal digestive process.

MI Paste Indications

PROSPEC MI Paste is indicated for post-bleaching sensitivity, root planing and scaling, as well as during prophylaxis.

Water based, sugar-free paste. Available in 5 flavors: Melon, Mint, Strawberry, Tutti Frutti and Vanilla. Two 40g tubes of each flavor in basic 10-pack.



Dr. K. Cross

Recaldent attaching itself to mutans streptococci.[1]

Demineralized dentin

After Recaldent application

Prof. E. Reynolds

Recaldent is a special milk-derived protein that can help replace lost minerals from the teeth, make them stronger, and help protect them from decay and erosion.

GC®
GC AMERICA INC.

FEATURES AND BENEFITS

Recaldent™

Bio-available Calcium and Phosphate

- Contains Recaldent CPP-ACP. Casein Phosphopeptide (CPP) are natural occurring molecules which are able to bind calcium and phosphate ions and stabilize Amorphous Calcium Phosphate (ACP).[2&3]
- Recaldent CPP-ACP is a special milk-derived protein that can help replace lost minerals in teeth, make them stronger and helps protect them from decay and erosion.[1&3]
- Adheres easily to soft tissue, pellicle, plaque and even hydroxyapatite. Reacts similar to the mineral/statherin relation in saliva supplying bio-available calcium and phosphate required for remineralization to take place.[1&3]
- Under acidic conditions, Recaldent releases calcium and phosphate ions into tooth enamel which reduce demineralization and enhance remineralization.[4&5]
- Supplies calcium and phosphate needed for the natural remineralization process for patients with poor saliva flow. This situation can be further augmented by elevating the level of fluoride.

Topical Paste

- Water-based, sugar-free topical creme with a special blend of polishing, cleaning and dentinal tubule sealing agents.
- Five tasty flavors - melon, mint, strawberry, tutti frutti and vanilla.

Easy to Use

- Designed for professional application and professionally supervised at-home follow-up.
- Prophy cup application: Apply generous layer of MI Paste as a final polishing after routine prophylaxis. Patient does not need to rinse away.
- Custom tray application: Extrude a generous layer to tray and position in patients mouth for 3 minutes.
- MI Paste is completely edible and can be swallowed.
- Recaldent is lactose free. It should not be used by patients with milk protein allergies.
- After initial treatment, the tube of MI Paste can be sent home with the patient for ongoing treatment. Patient can apply using a tray (like for bleaching), toothbrush or fingertip.

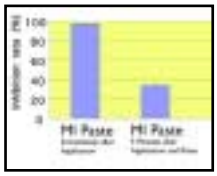
New Addition to Preventive Treatment Regimen

- Offers an additional treatment for salivary disfunction, sensitivity, erosion, excessive caries and unhealthy enamel. Also for use during ortho applications, xerostomia, and Sjogrens syndrome
- Replaces lost minerals, improves the protective qualities of saliva, improves fluoride uptake, and soothes sensitive surfaces.
- Perfect complement to saliva testing. Testing can be done as part of patient's routine examination using new Saliva-Check Kits.

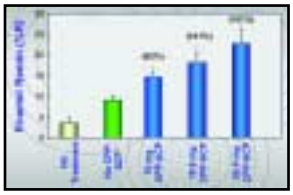
Effectiveness of Recaldent

Note: MI Paste was tested under the name Tooth Mousse.

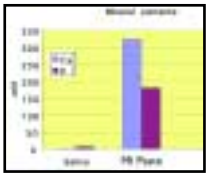
Sealing Ability to Dentin Tubules[6]



Effectiveness vs Recaldent Exposure[7]



Bio-Available Calcium and Phosphate (data on file)



[1]Schupbach et al, Incorporation of caseinoglycomacropeptide and caseinophosphopeptide into salivary pellicle inhibits adherence of mutans sreptoccoci," J Dent Res, 1996; 75: 1779-88.
[2]Reynolds, "Remineralization of enamel subsurface lesions by casein phosphopeptide-stabilized calcium phosphate solutions," J Dent Res , 1997; 76: 1587-95.
[3]Rose, "Effects of an anticariogenic casein phosphopeptide on calcium diffusion in streptococcal model dental plaques," Arch Oral Biol 2000; 45(7):569-75.
[4]Reynolds, "Anticariogenic complexes of amorphous calcium phosphate stabilized by casein phosphopeptides: a review," Spec Care Dent , 1998; 18: 8-16.
[5]Reynolds et al, "Advances in enamel remineralization: anticariogenic casein phosphopeptide-amorphous calcium phosphate," Jour Clin Dent 1999; X(2) 86-88.
[6] Pashley et al, "CCP-ACP Sealing Ability to Dentin Tubules," Split Chamber Device Method, J Dent Res 1978; 57(2): 187-93
[7]Shen et al, "Remineralization of Enamel subsurface Lesions by Sugar-Free Chewing gum containing CCP-ACP," J Dent Res, 2001; 80(12): 2066-70

PRODUCT CODE

002265

PROSPEC MI Paste 10-Pack

Contains: 10 Tubes of MI Paste (40g each), two tubes of each flavor (melon, mint, strawberry, tutti frutti and vanilla).

900100

SALIVA-CHECK Package

Contains: 10 Individual Saliva-Check Kits, each which include one saliva buffering test strip, three saliva pH test strips, one pack of unflavored chewing wax (stimulant), one eyedropper pipette, one gauze towel and one 20mL saliva collection cup.

GC America Inc.

Advancing the Art and Science of Dentistry

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