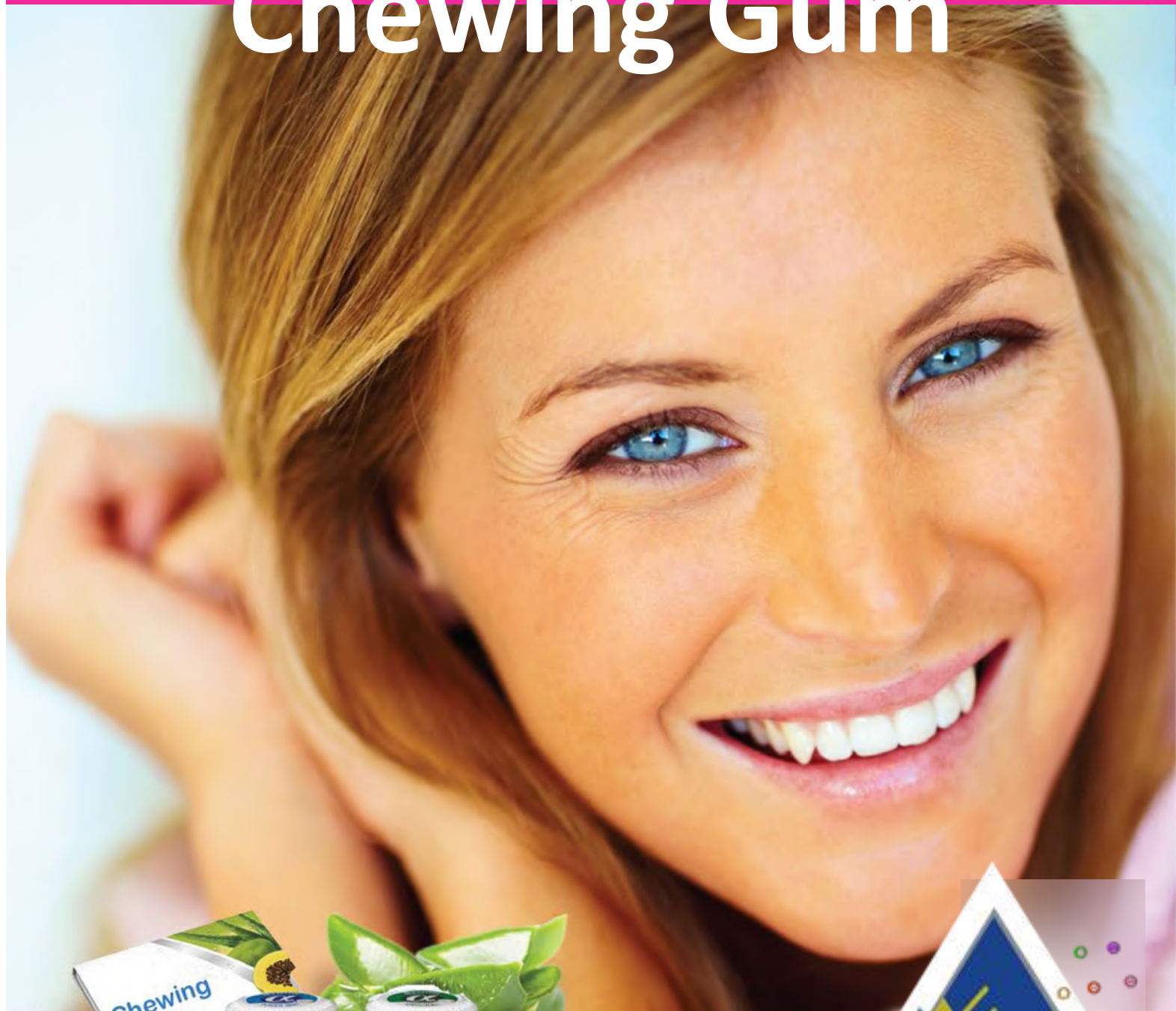


Commercial Bulletin

# Aloe & Mouth Care: Chewing Gum



Aloe Successfully Treats Oral Conditions with Chewing Gum



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## Aloe Vera in Mouth Care

So, there you have it, it's not just pretty smile that you forfeit when you get gum disease - but what can you do to prevent it. Well, most of us know that regular brushing, flossing and visits to your dentist will go a long way to preventing gum disease. What you may not know though, is that a daily Chew Gum with Aloe Vera can also be of great benefit. It can work wonders for dental health and protect the sensitive fragile tissues of the mouth. Use Aloe Vera in your Chewing Gum recipe for healthy teeth: Reduce the risk factor for development of dental caries, Adding Aloe Vera to an Oral hygiene regimen greatly boosts the mouth's protection against periodontal diseases, such as gingivitis.



Aloe Vera has an unlimited future in new applications, and In sense of dentistry we are just on the cutting edge of promising utilization for anti-inflammatory procedure, antiviral, and immunological benefits. Aloe Vera has a lot to offer in the field of dentistry, a lot of studies are on the way to utilize the effective antimicrobial property of the miracle plant in Mouth Care. Interest is gathering for the use of Aloe Vera in dentistry and this natural therapy is already proved its unlimited use in this field. Interest is gathering momentum across our country as researchers are becoming interested in alterna- tive therapy utilizing natural products versus synthetic agents.



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The dental uses of Aloe Vera are multiple. It is extremely helpful in the treatment of gum disease – gingivitis and periodontitis. It reduces swelling of the soft tissues and consequently this reduces the bleeding of the gums. It is powerfully antiseptic in gum pockets where normal cleaning is difficult. Its antifungal properties help greatly in the problem of denture stomatitis, ie. red and sore mucous membranes which are permanently covered by a denture – this is a form of thrush. Cracked and split corners of the mouth are also subject to fungal infection and this can be cured by Aloe. Its antiviral properties help in the treatment of cold sores (Herpes Simplex) and shingles (Herpes Zoster). It is a powerful healing promoter and when inserted into extraction sockets is very beneficial. It can be used in any surgical wound. It has a use in root canal treatment as a sedative dressing, healing promoter and file lubricant.



- Aloe Vera greatly helps to lessen its sensitivity.
- Gingival & Periodontal Diseases
- Aloe Vera greatly reduces the instances of gum bleeding due to its soothing & healing properties,
- Reduces swelling and soft tissue edema.
- Hence stops bleeding and restores gums to health.
- Reduces plaque & calculus formation.
- Halitosis
- Aloe Vera is natural anti-fungal and antibacterial agent so prevents fungal infections.
- It protects the sensitive tissue in the mouth, kills bacteria as well as fight tooth decay.
- Boosts body's ability to create collagen, which strengthens weak and swollen gums.
- Denture Care Smoothing



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# Aloe Vera in your Chewing gum recipe for healthy teeth



- It prevents denture stomatitis.
- Aloe is also effectively to reduce the acidity of saliva to help keep the teeth and mouth clean to promote excellent oral health.
- It can be used along with soft liners
- It strengthens gums, soothes & alleviates gum irritation like gum sores (ulcer).
- It has adequate adhesive strength to wet and dry conditions.
- Aloe in Canker & Cold Sores Accelerates healing & reduces pain associated with canker sores.
- Aloe Vera cleanses & soothes teeth & gums and effective in fighting cavities.
- Prevent and heal gum disease,
- Prevent bacteria from adhering to your teeth (reduce plaque),
- Enhance mouth immunity in general,
- Aloe also freshen the breath.
- Less harsh on teeth as it does not have the abrasive elements and hence is a better alternative for people with sensitive teeth or gums.
- Aloe Vera reduces inflammation by its antimicrobial & anti-inflammatory effects.

## Mechanism of actions

1. Healing properties: Glucomannan, a mannose-rich polysaccharide, and gibberellin, a growth hormone, interacts with growth factor receptors on the fibroblast, thereby stimulating its activity and proliferation, which in turn significantly increases collagen synthesis after topical and oral Aloe Vera.
2. Anti-inflammatory action: Aloe Vera inhibits the cyclooxygenase pathway and reduces prostaglandin E2 production from arachidonic acid.
3. Aloe Vera gel soothes and heals mouth-sores , both thermal and chemical
4. Aloe Vera gel cures acute inflammation of the Oral mucosa of fungal or bacterial origin and candidiasis
5. Aloe Vera gel provides relief from pressure ulcers after ill-matched dental prostheses. It can be used immediately before the imposition of a prosthesis, which also has antibacterial properties and prevents odor.



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- 6. Aloe Vera gel controls bacteria after surgically placed dental implants
- 7. Aloe decreases pain, reduces swelling, and other symptoms of inflammation in the mouth. Aloe stays on the skin and gums surface for a few hours, which further extends the therapeutic effect.
- 8. Antibacterial activity of Aloe Vera has been recognized by dentists when they found out that gingivitis strains, responsible for the majority of periodontal diseases, cannot withstand Aloe.
- 9. Aloe Vera strengthens the defense mechanisms that improve the condition of the Oral mucosa, helps in the application after surgery in the Oral cavity. Wounds after extraction heal much faster and without complications (avoiding the so-called empty socket).
- 10. Aloe Vera accelerates the healing of various injuries and gum irritation
- 11. Effects on the immune system: Alprogen inhibit calcium influx into mast cells, thereby inhibiting the antigen-antibody-mediated release of histamine and leukotriene from mast cells.
- 12. Antiviral and antitumor activity: These actions may be due to indirect or direct effects. Indirect effect is due to stimulation of the immune system

- 13. Moisturizing and anti-aging effect: Mucopolysaccharides help in binding moisture into the skin. Aloe stimulates fibroblast which produces the collagen and elastin fibers making the skin more elastic and less wrinkled. It also has cohesive effects on the superficial flaking epidermal cells by sticking them together, which softens the skin
- 14. A natural food source of glyconutrients<sup>3</sup>, Aloe Vera (which can be easily home-grown), is credited with many healing virtues, including in the dental realm. I've seen it used and/or recommended for mouth or gum ulcers (exerting a weak localized numbing effect), speeding up the healing of damaged gum tissue (such as post-dental surgery), and countering irritation, infection and inflammation
- 15. Antiseptic effect: Aloe Vera contains 6 antiseptic agents: Lupeol, salicylic acid, urea nitrogen, cinnamonic acid, phenols and sulfur. They all have inhibitory action on fungi, bacteria and viruses. Having good antiseptic and anti-inflammatory properties. Aloe is used in the treatment of gingivitis and periodontitis. It readily reduce the gingival inflammation and pain associated with it. Clinically proven studies have showed that mouthrinses and dentifrices containing Aloe Vera have shown a remarkable reduction in gingivitis and plaque accumulation after its use.

# Aloe Vera greatly helps to lessen its sensitivity



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16. Its anti-viral properties help in the treatment of herpes simplex and herpes zoster infections. The sore areas of the oral mucosa which are covered by dentures can be treated with aloe gels as it is also a good antifungal agent, they also reduce the pain associated with ulcers in the commissures of the mouth.

17. Aloe Vera gel reportedly inhibited the growth of candida albicans, which is the most common candida species in the oral cavity.

18. Studies carried out prove the anti microbial activity of dentifrice containing Aloe Vera have shown inhibition in the growth of organisms such as S.viscosus, S. mutans, S.sanguis and C.albicans.

19. As Aloe Vera tooth gel does not contain the abrasives which are present in the normal dentifrices they are a good alternative for individuals with sensitive teeth.

20. Acemannan, a complex mannose carbohydrate which is derived from Aloe Vera plant has an inherent viscosity which makes it ideal to be used as a denture adhesive. A study report is proved its adhesive strength with minimal cytotoxicity .

21. The wound healing and anti-inflammatory property of this aloe gel , has shown the reduction in the incidence of alveolar osteitis in patients who received an Aloe Vera gel

22. Aloe Vera gel is been used as a lubricant and a sedative dressing during biomechanical preparation in root canal treatment.

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## Contents of Aloe Vera Gel

Active components with its properties: Aloe Vera contains 75 potentially active constituents: vitamins, enzymes, minerals, sugars, lignin, saponins, salicylic acids and amino acids. Saponins are glycosides which are thought to comprise about 3% of A. vera gel. They are soapy substances, containing antiseptic properties, which are capable of cleansing.

## Sugars

Aloe Vera contains two sorts of sugars, monosaccharides, such as glucose and fructose, and long chain sugars called polysaccharides, the main one being a glucomannose often referred to as Acemannan.



## Antiinflammatories

In addition to vitamins and minerals, A. vera has ingredients that act as antiinflammatories. Brady-kinase is an A. vera enzyme, which reduces skin inflammation. It has fatty acids, salicylic acid and hormones called auxins and gibberellins, all of which result in inflammation reversal. These anti-inflammatories work most often by stimulating immune system function and collagen growth, or by blocking the paths of irritants.





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# Aloe Vera is natural anti-fungal and antibacterial agent



## Enzymes



Aloe Vera contains many enzymes, which can be divided into two groups, those that aid digestion and those that are anti-inflammatory. Of the ones that aid digestion some, like amylase, break down starch and sugar, while others, such as lipase, help break down fats.

## Amino acids

The human body requires 20 amino acids for good health to be maintained, and all but eight can be manufactured in the body. The others called essential amino acids need to be taken as food. Together they form the building blocks of proteins from which we manufacture and repair muscles.

Aloe Vera provides 19 of the 20 required amino acids and seven of the eight essential ones. The missing amino acid is tryptophan, although Bill Coates, an American pharmacist and Aloe expert, claims it has this one too. The evidence is not conclusive yet, although providing seven out of the eight required is good going.



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