

MANUKA OIL IN ORAL CARE:



For improved oral hygiene brush regularly with Manuka Toothpaste. Effective in the fight against bacteria and build-up of plaque. This product is made by Red Seal in New Zealand and is actually called 'Makuna Tea Tree Toothpaste'.



Kiwiherb Manuka Mouthwash 100ml

A herbal preparation designed to promote oral hygiene and health.

Usage

Dilute 2-4mls in 20-30mls of water. Use as a mouthwash one to three times a day. Expel after use.

Ingredients

Aqua, certified organic &/or wildcrafted extracts of dried: manuka (*Leptospermum scoparium*), tanekaha (*Phyllocladus trichomanoides*), liquorice (*Glycyrrhiza glabra*), aniseed (*Pimpinella anisum*), essential oils of manuka (*Leptospermum scoparium*) and peppermint (*Mentha piperita*), alcohol.

Cautions

Long term continuous use may result in staining of the teeth. Use only as directed.

Short Communication

A comparison of the antibacterial efficacies of essential oils against oral pathogens

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Cariogenic bacteria and periodontopathic bacteria are present in dental plaque as biofilms. In this study, we investigated the antibacterial effects of essential oils on the following oral bacteria: *Porphyromonas gingivalis*, *Actinobacillus actinomycetemcomitans*, *Fusobacterium nucleatum*, *Streptococcus mutans*, and *Streptococcus sobrinus*. We tested manuka oil, tea tree oil, eucalyptus oil, lavandula oil, and rosmarinus oil and determined their minimum inhibitory concentration and minimum bactericidal concentration. The essential oils inhibited the growth of the bacteria tested, manuka oil being the most effective. Minimum bactericidal concentration values showed that lavandula oil acts bacteriostatically, and the remaining oils, bactericidally. Periodontopathic bacterial strains tested were killed completely by exposure for 30 s to 0.2% manuka oil, tea tree oil or eucalyptus oil. Tea tree oil and manuka oil showed significant adhesion-inhibiting activity against *P. gingivalis*. All the essential oils tested inhibited the adhesion of *S. mutans*. This study showed that, among the essential oils tested, manuka oil and tea tree oil in particular had strong antibacterial activity against periodontopathic and cariogenic bacteria. From the viewpoint of safety, we also examined the effects of these essential oils on cultured human umbilical vein endothelial cells and found that, at a concentration of 0.2%, they had little effect on cultured cells.