

TECH OFFER

Potent Anti-Bacterial Plant Oil For Skin Health And Ailment



KEY INFORMATION

TECHNOLOGY CATEGORY:

Healthcare - Medical Devices

Healthcare - Pharmaceuticals & Therapeutics

Sustainability - Sustainable Living

TECHNOLOGY READINESS LEVEL (TRL): **TRL8**

COUNTRY: **NEW ZEALAND**

ID NUMBER: **TO174284**

OVERVIEW

Manuka oil, not to be confused with manuka honey, is extracted from the leaf of the New Zealand Mānuka super plant. It has strong gram-positive antimicrobial, anti-fungal, and antioxidant properties making it a potent, natural, botanical healing agent. It has traditionally been used for practical and medicinal applications.

The Manuka oil has effective properties on gram positive bacteria skin infections and others such as fungal infections, cold sores, ringworm, rhinitis and, inflammation. Compared to tea tree oil, the Manuka oil is 12 times more effective against P. Acnes, 2.7 times more effective against S. Aureus, and 1.7 times more effective against A. Strep.

This Manuka oil comes from a New Zealand company leading the development, production, and sustainable supply of Manuka oil. It can be formulated into various skin, hair, and oral, and pet care products.

TECHNOLOGY FEATURES & SPECIFICATIONS

The main active constituents of the Manuka essential oil are β -triketones, flavesone, Leptospermone, isoleptospermone, and grandiflorone, which give the oil its unique antimicrobial properties.

The levels of β -triketones vary depending on factors such as soil, climate, location, ecological environment, and seasonal variations. The company offers access to plants producing the highest levels growing naturally.

The distilled oil is independently tested and graded to determine the percentage of β -Triketones present.

POTENTIAL APPLICATIONS

Manuka oil is good for the following products:

- Aromatherapy, cosmetics, skin care, hair care, oral care, and pet care.

Mānuka β -triketones has been effectively proven for the following applications of:

- Cuts, Scratches and Abrasions wounds
- Abscesses, Bed sores, blisters, boils, ulcers – varicose
- Acne, dermatitis, pimples
- Burns
- Eczema, skin irritation, chaffing, cracked, rashes, sunburn, oily
- Foot and body odour
- Itching scalp, dandruff, lice
- Fungal infection e.g. ringworm
- Insect bites and stings
- Aching muscles and joints
- Rhinitis

MARKET TRENDS & OPPORTUNITIES

Manuka oil is in line with the consumers' preference for natural yet hyper-effective solutions. Manuka oil also features a good Maori story as an ancient cure for skin ailments.

BENEFITS

As manuka oil has been proven more effective than tea tree oil on gram positive bacteria, consumer benefits are faster healing of skin and medical conditions. Mānuka oil can be mixed with tea tree oil to increase the efficacy of both oils as there is a synergistic effect when the oils are combined.