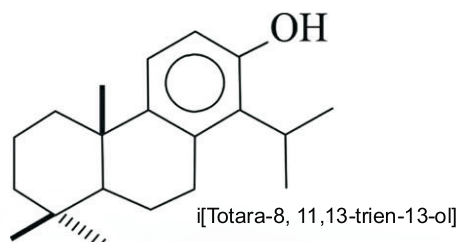


Totarol™

The world's new natural active

Totarol™ is a natural extract from Totara heartwood, enriched in the aromatic diterpenoid, totarol: $C_{20}H_{30}O$



Totarol™ is extracted from recycled Podocarpus Totara heartwood using a novel supercritical extraction process. Totarol™ has no taste and minimal aroma. **Totarol™** has been extensively tested at independent laboratories to demonstrate bioactivity, safety and product composition. **Totarol™** has now been registered in Europe for use in cosmeceuticals.

Totarol™ has potent anti-bacterial activity in both, gram positive and gram negative bacteria as well as possessing potent anti-oxidant properties.

Product applications developed:

Oral Care products:

Totarol™ possesses potent antibacterial activity against Streptococcus mutans, the major cariogenic organisms present in dental plaque. **Totarol™** has been combined in proprietary blends with other bioactive natural products to give a broad spectrum antimicrobial toothpaste and mouthwash, which is also active against gingivitis and periodontal disease.

Acne Solution:

Totarol™ exhibits potent anti-bacterial activity against a number of gram positive bacteria. Among the active compounds isolated, **Totarol™** showed the most potent activity against Propionibacterium acnes. Combining **Totarol™** with Testosterone 5 α -Reductase Inhibitor, the formulation shows a 80% successful treatment rate.

Product ranges further developed by partner companies including a Teenage cosmetic and health range, adult cosmetic range, baby care range and a pet range, all with **Totarol™** as the main active.



Essentially New Zealand Limited is the international sales and marketing representative of Mende-Biotech Limited and all inquiries should be directed to our company:

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