

HYPERGANIC

WORLD LEADERS IN BIOACTIVE TOTAROL™ INNOVATION

- Increases skin homogeneity
- Reduces wrinkle numbers
- Reduces acne volume and number
- Controls sebum production
- Repairs acne wound
- Reduces dark spots

CERTIFIED bio gro NZ CERT ORGANIC

HYPERGANIC BIOGROUP™

BIOACTIVE TOTAROL™

The clinically proven New Zealand super ingredient transforming ancient tree green waste, into effective beauty solutions.

This sustainably harvested and manufactured proprietary natural ingredient showcases potent antioxidant, antimicrobial, and neuroregenerative properties, positioning it as a breakthrough active in skin health and beyond.

Bioactive Totarol™, an organically certified highly potent diterpenoid derived from *Podocarpus Totara,* embodies the future of advanced dermatological and oral care solutions.

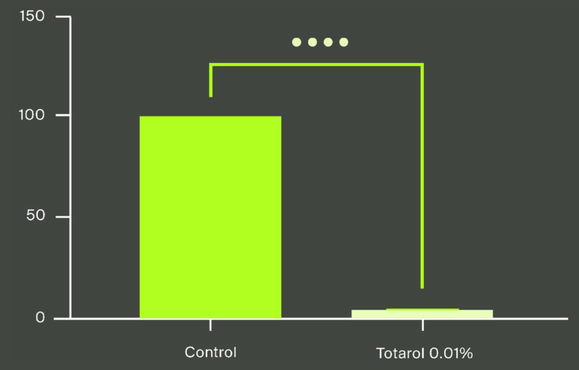
TOTAROL™ SUSTAINABLY SOURCED BIOACTIVE

- **INCI: Totarol**
- Non-GMO
- Recommended Dose: 0.01% -2%
- Solubility: Lipid Soluble
- IUPAC - 2-PHENANTHRENOL, 4B,5,6,7,8,8A,9,10-OCTAHYDRO-4B,8,8-TRIMETHYL-1-(1-METHYLETHYL)

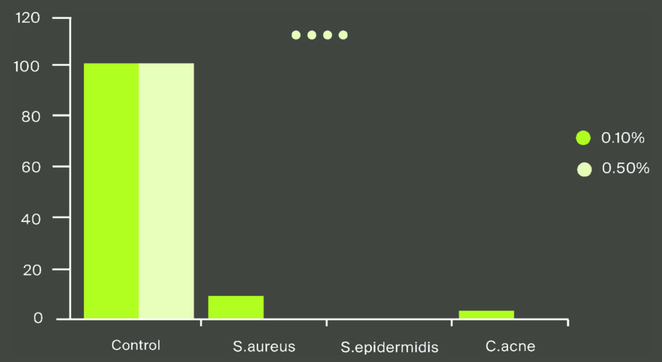
Highly Potent Bioactive

Recent clinical research highlights Bioactive Totarol's potent antimicrobial activity against pathogenic bacteria associated with skin and oral infections. Studies demonstrate its dose-dependent efficacy in inducing irreversible microbial cell damage in Staphylococcus aureus, Staphylococcus epidermidis and Cutibacterium acnes at 0.1%, all implicated in dermatological conditions. Notably, Totarol achieves complete eradication of Staphylococcus epidermidis at a concentration of 0.01%, underscoring its potential as a targeted antimicrobial agent.

Cell viability (OD 620nm) - S.epidermidis (24)



Effect of Different Concentrations on Bacteria



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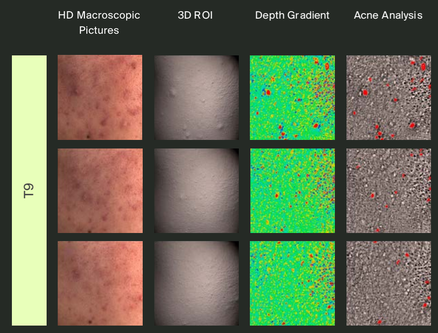

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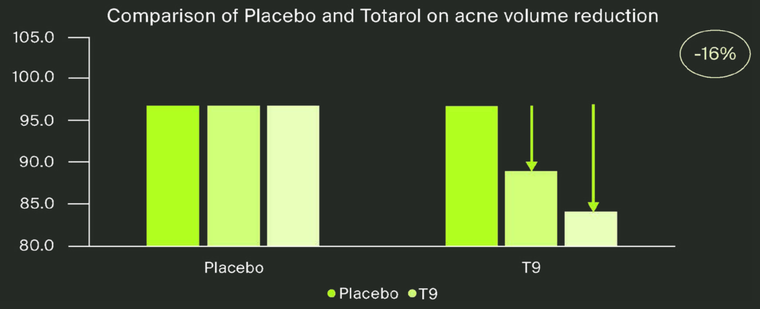

Clinical Studies

Recent in-vivo clinical studies on Bioactive Totarol™ treatment revealed remarkable dermatological improvements, including reduced sebum production, normalization of keratinization, suppression of acnes, and balanced inflammatory responses.

These studies were conducted using high-resolution imaging technology, 3D fringe-projection analysis, and sebum level assessment, ensuring comprehensive and scientifically validated results. Subjective feedback from participants further reinforced the efficacy of Totarol, with noticeable enhancements in skin clarity and overall appearance and irritation concerns.

A) Mechanism of action: Totarol ruptures the bacterial cell membrane leading to lysis of bacterial cell wall followed by the losses of intracellular dense materials. Totarol then help regulates the cytokins necessary for wound healing.

B) Up to 30% sebum reduction with visible reduction of skin dullness

C) Up to 15% reduction in acne number, substantiated with statistically significant reductions of facial acne parameters and skin homogenisity.

D) 16% Acne volume reduction in continues use of Bioactive Totarol™ oil twice a day for 28 and 56 days.

Antioxidant Properties

The antioxidant properties of Bioactive Totarol™ offer a crucial defense against oxidative stress—one of the primary drivers of skin aging and cellular damage. By mitigating free radical-induced degradation, Totarol enhances skin resilience, promoting a brighter, healthier complexion. Additionally, its anti-inflammatory action has been clinically proven to reduce erythema and irritation, key markers of inflammatory skin conditions, making it an ideal candidate for soothing acne-prone and sensitive skin. Our clinical studies involving 24 females (aged between 30 to 60) shows the efficacy of Totarol:

A) Mechanism of action: Bioactive Totarol™ being a natural terpenoid is an anti-oxidant that inhibits the lipid peroxidation and modulates the signaling pathways of cytokins.

B) Visible results in reduction of crows feet density in 56 days.

C) 13% wrinkle number reduction and 6% area reduction in continues use of Bioactive Totarol™ oil twice a day for 28 and 56 days.

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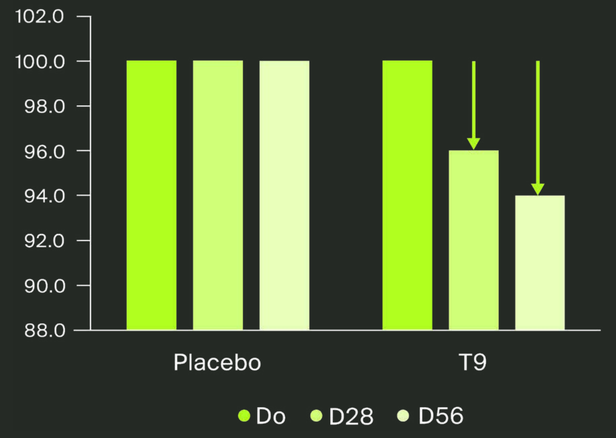

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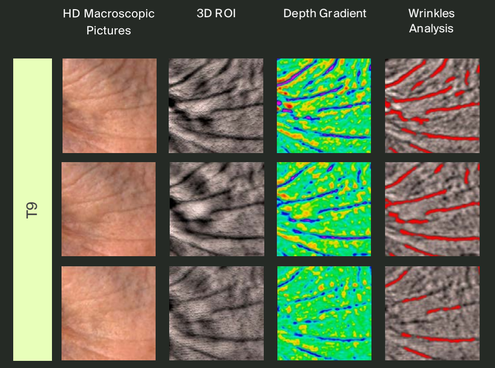

Bioactive Profile: Totarol

With its multifaceted bioactive profile, Bioactive Totarol™ is redefining skincare and oral health, offering a naturally derived yet scientifically potent alternative to conventional treatments. Bioactive Totarol™ is a highly potent, revolutionary ingredient that is 100 times more effective against S.epidermidis than reported generic and proprietary ingredients. Its ability to restore balance, protect against environmental aggressors, and support the skin's innate healing mechanisms makes it an essential ingredient for next-generation dermatological formulations. Bioactive Totarol™ isn't just an active; it's a revolution in holistic skin health and wellness.

References

* Antibacterial activity of Totarol and its potentiation. I Kubo, H Muroi, M Himejima, J Nat Prod. 1992 Oct;55(10):1436-40. doi: 10.1021/np50088a008.

All clinical efficacy tests were conducted following UNE-EN-ISO 9001/2015 Quality Management System guidelines, UNE-ISO/IEC 27001/2023 Information Security Management System guidelines and Guidelines for the Evaluation of the Efficacy of cosmetic Products, COLIPA, May 2008.

- Mother Nature’s secret weapon from New Zealand, utilised by some of the world’s biggest cosmetics and personal care companies:

Augustinus Bader
Kiehl’s
L’ORÉAL
GO-TO
COSMAX
Endeavour CONSUMER HEALTH

- Hyperganic Production Process

MPI certified fallen Totara tree (sourced across New Zealand)

Totara chip sent to local extraction facility

Patented supercritical CO2 extraction produces Bioactive Totarol™

Bioactive Totarol™ QA tested, audited and organically certified

For the equivalent of every full-sized Totara used 1,000 Totara trees planted

TREES THAT COUNT
TE RAHI O TĀNE

Bioactive Totarol™ sold locally and globally

HYPERGANIC TEAM:



BRYAN MOGRIDGE
Chairman



DR BHUVANA KANNAN
Scientific Director



RYAN DAVIES
Managing Director



STEPHANIE DAVIES
Sales and Marketing Director