

BIOACTIVE
TOTAROL™

BY MENDE BIOTECH

Totarol™ Specification document on Chemical Analysis

Totarol™ is predominantly composed of the natural product (+)-totarol (CAS 511-15-9. IUPAC name; (4bS,8aS)-4b,8,8-Trimethyl-1-propan-2-yl-5,6,7,8a,9,10-hexahydrophenanthren-2-ol).

CHEMICAL ANALYSIS

Component	Specification
(+) totarol	74-88
Other related compounds	6.9-25
Volatiles	0.5-5
Total	

Totarol™ is

Non-GMO or palm oil components

Non-Gluten

Non-EO (Ethylene Oxide)

Re: Chloromethylisothiazolinone/Methylisothiazolinone (CMIT/MIT)

There is no CMIT/MIT in any of the processes or makeup of Totarol™

Totarol™ is 100% organic plant extract from podocarpus totara

Signed

D. A Mende

Director for Science and compliance



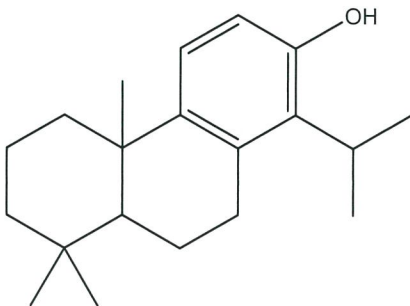


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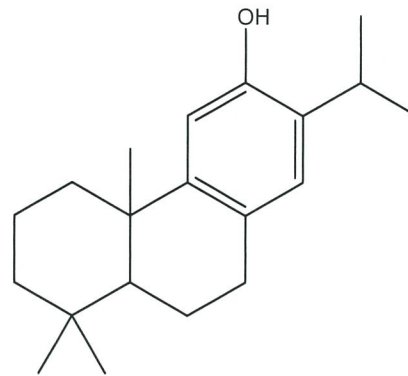
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**TOTAROL COMPOSITION
DOCUMENT**

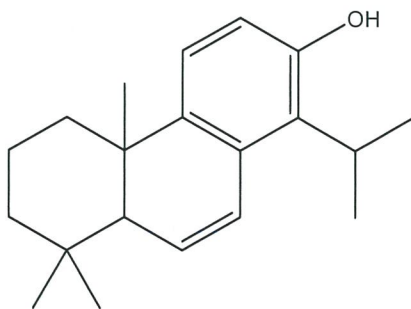
COMPONENT	CAS No.	Specification
(+) totarol	511-15-9	74-88
Ferruginol	514-62-5	1-3
Sempervirol	1857-11-0	0.4-1.2
6,7 dehydro-totarol	3625-02-3	0.2-1
Other related compounds		6.9 - 25



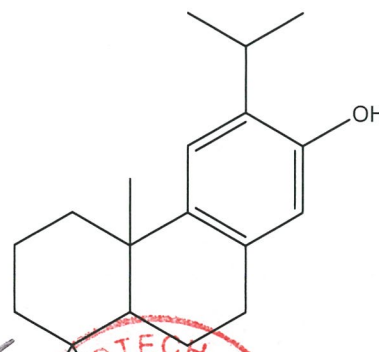
Totarol



Ferruginol

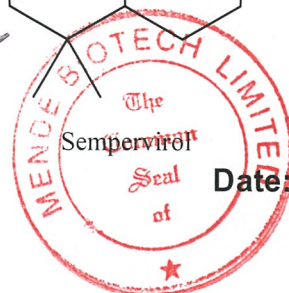


6,7-dehydro totarol



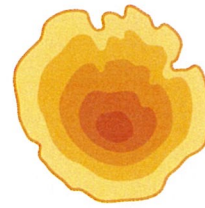
Sempervirol

Signed



Date:

16/08/2019.



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Product Information

Totarol™

Origin: Natural Plant extract from New Zealand Totara wood. (*Podocarpus totara*)
Totarol™ NZ Pat App 530834
100% New Zealand made and BioGro Certification number 5033

Appearance: solid: light tan powder

Molecular weight: $C_{20}H_{30}O=286.44$

CAS Number: 511-15-9

CTFA Number: 7277

INCI Name: Totarol

EC number: 479-590-0

REACH Registration Number: 01-0000020027-80-0000

New Zealand Customs code: 40101479K

Export Tariff code, HS 1302.19.00 29E

Manufacturer

Mende Biotech Ltd
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Signed:

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