

Specification Sheet

Product: Mānuka Oil Hydrosol [MβTK 25+]
(*Leptospermum scoparium*)
Product Code: MHYD



Origin & Typical Physical Properties¹

Country of Origin	New Zealand
Grade	MβTK™ 25+
Plant Part Used	Aerial Leaf & twig
Extraction Method	Steam Distillation
Physical Appearance	Clear Mobile Aqueous Liquid
Odour	Herbal Aroma
Solubility	Infinite in Water & Alcohol's
Flash Point	Not flammable
pH	≈ 3.3
Oil Content in Hydrosol	≈ 0.0015 - 0.0080% (15 - 30 ppm)
Shelf Life²	1 year

¹Typical ranges for New Zealand Mānuka Oil Hydrosol, [MβTK 25+] Grade.

²1 Year if unopened and stored under optimum storage conditions (sealed, away from direct sunlight and in cool). Longer is subject to retesting.

Mānuka Hydrosol contains a very complex number of over 100 organic compounds produced from high β-triketone Mānuka brush *via* steam distillation. The organic portion of the hydrosol contains a high proportion of anti-microbial Mānuka β-triketones, along with a myriad of other oxygenated terpenoid related compounds. Additionally the hydrosol has many other water soluble components (Natural alcohols & acids) with interesting and therapeutic properties.

Typical Ranges for Principal Major Organic Constituents in Mānuka Hydrosol (% Area by GC-FID/MS)

Compound	%	ppm ³
1,8-Cineole	0.00001 - 0.0004	0.1 - 4.0
2-Hexenal	0.00001 - 0.0002	0.1 - 2.0
E-3-Hexen-1-ol + Z-3-Hexen-1-ol	0.00008 - 0.0015	0.8 - 15
Linalool	0.00001 - 0.0002	0.1 - 2.0
Terpinene-4-ol	0.000012 - 0.00020	0.12 - 2.0
Benzeneacetaldehyde	0.00002 - 0.00025	0.2 - 2.5
α-Terpeneol	0.00005 - 0.0004	0.5 - 4.0
2-Phenylethyl Alcohol	0.0002 - 0.0004	2 - 4.0
Flavesone(β-Triketone)	0.0001 - 0.0007	1.0 - 7.0
Isoleptospermone + Leptospermone(β-Triketones)	0.0001 - 0.00095	1.0 - 9.5
Acetone	0 - 0.0001	0 - 1.0
Methyl Alcohol	0.0003 - 0.0010	3 - 10
Ethyl Alcohol	0.00005 - 0.003	0.5 - 30

³ppm = Parts per Million.

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Dr Wayne M. Campbell
Science & Technical Manager
New Zealand Manuka Bioactives
Ltd