

Specification Sheet

Product: Mānuka Oil [MβTK 5+]

(*Leptospermum scoparium*)

Product Code: 5MB

Example Batch No.: M12021600



Origin & Physical Properties¹

Country of Origin	New Zealand
Harvest Region	North Island New Zealand
Plant Part Used	Aerial Leaf & twig
Extraction Method	Steam Distillation
Viscosity ²	Mobile Liquid
Colour ³	Clear
Odour	Characteristic & woody
Flash Point	> 80 °C
Refractive Index (Typical)	1.503 (1.490 - 1.510)
Specific Gravity @ 20°C (Typical)	0.935 (0.918 - 0.937)
Moisture Content (Visual)	No visible water @ 20°C
CAS No.	[223749-44-8]
Shelf Life ⁴	4 Years Bulk

¹Typical ranges for Standard New Zealand Mānuka Oil [MβTK 5+] Grade.

²Viscosity is temperature dependent.

³Faint seasonal green to yellow translucent variations can be observed.

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

Manuka Oil Specification⁵

Key Compounds For Standard Manuka Oil [MβTK 5+]

(% Area by GC-FID/MS, as tested by independent accredited lab SCPS⁶)

Chemical Compounds	Specification ⁷ (%)	Example Batch No. M12021600 (%)
α-pinene	< 2	1.02
cis-calamenene	7 - 10	7.85
flavesone (<i>β-Triketone</i>)	0.2 - 2.0	0.67
isoleptospermone (<i>β-Triketone</i>)	1.0 - 3.5	1.99
leptospermone (<i>β-Triketone</i>)	2.5 - 7.0	3.53
grandiflorone (<i>β-Triketone</i>)	0.0 - 0.5	0.05
MβTK™ (<i>Total β-triketones</i>) ⁷	≥ 5	6.24

⁵Not less than 1% MβTK actives.

⁶Southern Cross Plant Science; Analytical Research Laboratory Australia.

⁷Specification standard by New Zealand Mānuka Bioactives Ltd for Mānuka Oil [MβTK 5+].

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