

Specification Sheet

Product: Mānuka Oil [MβTK 20+]

(Leptospermum scoparium)

Product Code: 20MB

Example Batch No.: M17071720B



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 Semi Viscous Liquid
Colour ³	Clear
Odour	Characteristic & woody
Flash Point	> 94 °C
Refractive Index @ 20°C (Typical)	1.503 (1.499 - 1.505)
Relative Density @ 20°C (Typical)	0.955 (0.920 - 0.985)
Moisture Content (Visual)	No visible water @ 20°C
CAS No.	[223749-44-8]
MβTK™ (Total Manuka β-Triketone Content)	≥ 20.0%
Shelf Life ⁴	6 Years Bulk

¹Typical ranges for Standard New Zealand Mānuka Oil [MβTK 20+] Grade.

²Viscosity is temperature dependent.

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

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

Manuka Oil Specification⁵

Key Compounds For Standard Manuka Oil [MβTK 20+]

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

Chemical Compounds	Specification ⁷ (%)	Example Batch No. M17071720B (%)
α-pinene	< 2	1.0
cis-calamenene	≥ 6.0 - 16	10.6
flavesone (<i>β-Triketone</i>)	≥ 3.9 - 7.0	4.1
isoleptospermone (<i>β-Triketone</i>)	≥ 3.0 - 7.0	4.3
leptospermone (<i>β-Triketone</i>)	≥ 11 - 20	13.2
grandiflorone (<i>β-Triketone</i>)	≥ 0 - 1.0	0.1
MβTK™ (<i>Total β-triketones</i>) ⁷	≥ 20	21.7

⁵Not less than 20% MβTK actives.

⁶Southern Cross Plant Science; Analytical Research Laboratory Australia.

⁷Specification standard by Mānuka Biologicals Ltd for Mānuka Oil [MβTK 20+].

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