

Specification Sheet

Product: Mānuka Oil [MβTK 40+]

(Leptospermum scoparium)

Product Code: LAMB

Example Batch No.: M24081740



Origin & Physical Properties¹

Country of Origin	New Zealand
Harvest Region	East Cape New Zealand
Plant Part Used	Aerial Leaf & twig
Extraction Method	Steam Distillation
Viscosity²	Viscus Liquid
Colour³	Very Faint Orange Tinge
Odour	Characteristic
Flash Point	> 122 °C
Refractive Index (Typical)	1.506 (1.503 - 1.508)
Specific Gravity @ 20°C (Typical)	1.00 (0.991 - 1.005)
Moisture Content (Visual)	No visible water @ 20°C
CAS No.	[223749-44-8]
Shelf Life⁴	4 Years Bulk

¹Typical ranges for Standard New Zealand Mānuka Oil [MβTK 40+] 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 Manuka Oil [MβTK 40+]

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

Chemical Compounds	Specification ⁷ (%)	Example Batch No. M24081740 (%)
α-pinene	< 0.2	0.01
cis-calamenene	10 - 20	14.9
flavesone (<i>β-Triketone</i>)	5.0 - 10	7.0
isoleptospermone (<i>β-Triketone</i>)	5.0 - 10	7.9
leptospermone (<i>β-Triketone</i>)	25 - 30	27.2
grandiflorone (<i>β-Triketone</i>)	0.1 - 1.0	0.6
MβTK™ (<i>Total β-triketones</i>) ⁷	≥ 40	42.7

⁵Not less than 40% MβTK actives.

⁶Southern Cross Plant Science; Analytical Research Laboratory Australia.

⁷Specification standard by New Zealand Mānuka Bioactives Ltd for Mānuka Oil [MβTK 40+].

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