

CERTIFICATE OF ANALYSIS

Document No.: VLG-QA-COA-4259885 Rev.: 01

SECTION 1 · PRODUCT SPECIFICATION

Product Name	Vilgain manuka honey mgo 514 + 250 g
PV Number	PV46746
Category	Honey
Batch No.	15109
Expiry Date	2. 7. 2031

SECTION 2 · LABORATORY TEST RESULTS

Parameter	Result
MPI Manuka Honey Classification	Monofloral Manuka Honey
Floral Descriptor (per Codex Alimentarius)	Monofloral
UMF™ Grade	15.5
Leptosperin	400 mg/kg
Dihydroxyacetone (DHA)	1,159 mg/kg
Methylglyoxal (MGO)	544 mg/kg
5-Hydroxymethylfurfural (HMF)	28.6 mg/kg
Non-Peroxide Activity (NPA), % Phenol Equivalent	15.5
3-Phenyllactic acid (3-PA)	1,020 mg/kg
2'-Methoxyacetophenone (2'-MAP)	26 mg/kg
2-Methoxybenzoic acid (2-MBA)	8.9 mg/kg
4-Hydroxyphenyllactic acid (4-HPA)	7.7 mg/kg
Manuka DNA (Cq)	29.99
Tutin	< 0.010 mg/kg (PASS; MRL 0.70 mg/kg)
C-4 Sugar Content	6.0 %
δ 13C Honey (Whole)	-25.70 ‰
δ 13C Honey (Protein)	-26.72 ‰

SECTION 3 · ANALYTICAL METHOD SUMMARIES

Testing laboratory: R J Hill Laboratories Limited (Hill Labs), 28 Duke Street, Frankton, Hamilton 3204, New Zealand. Hill Labs is accredited by International Accreditation New Zealand (IANZ), recognised internationally through the ILAC Mutual Recognition Arrangement (ILAC-MRA). Analyses were performed in accordance with the MPI Technical Papers 2017/30 and 2017/31 (modified), RLP Official Tests 10.04, 10.05 and 8.42, the in-house 3-in-1 Honey method (uHPLC/UV-Vis), LC-MS/MS methods, real-time PCR, and a modified AOAC 998.12 C-4 sugar screening method. UMF™ grading was assessed against the Codex Alimentarius floral descriptor classification per the UMF™ Honey Association standard.

Place & Date:

Brno, Czech Republic, 21 August 2026

Quality Department

Vilgain s.r.o.

This Certificate of Analysis is issued exclusively for the batch number stated above. Results apply solely to the items tested. All analyses were conducted by accredited third-party laboratories. Document issued by Vilgain s.r.o., Brno, Czech Republic.