

Certificate of Analysis

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Client:	Manuka Orchard Limited	Lab No:	4299371	HGPv1
Contact:	Manuka Orchard Limited 314 Old Coach Road RD 9 Te Puke 3189	Date Received:	28-Aug-2026	
		Date Reported:	28-Aug-2026	
		Quote No:	137784	
		Order No:	Lifes Buzzy	
		Client Reference:	Urgent Honey Testing	
		Add. Client Ref:	Lifes Buzzy	
		Submitted By:	Renee Davies	

Sample Type: Honey

Sample Name:	P2608-4
Lab Number:	4299371.1
Manuka Honey Analysis	
Dihydroxyacetone (DHA) mg/kg	1,886
5-Hydroxymethylfurfural (HMF) mg/kg	15.7
Methylglyoxal (MGO) mg/kg	553
Non Peroxide Activity (NPA)* % Phenol Equivalent	15.7
DHA:MGO Ratio*	3.41

Summary of Methods

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively simple matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis. A detection limit range indicates the lowest and highest detection limits in the associated suite of analytes. A full listing of compounds and detection limits are available from the laboratory upon request. Unless otherwise indicated, analyses were performed at Hill Labs, 28 Duke Street, Frankton, Hamilton 3204.

Sample Type: Honey

Test	Method Description	Default Detection Limit	Sample No
3-in-1 Honey method	Aqueous extraction, derivatisation. Analysis by uHPLC / UV-Vis (dihydroxyacetone, 5-hydroxymethylfurfural, methylglyoxal). In-house.	1.0 - 10 mg/kg	1
DHA:MGO Ratio*	Calculation: from DHA and MGO.	-	1
Non Peroxide Activity (NPA)*	NPA is calculated from methylglyoxal using an industry accepted correlation curve based on published data ^{1,2} for NPA and the primary active ingredient, methylglyoxal. ¹ Isolation by HPLC and characterisation of the bioactive fraction of New Zealand manuka (Leptospermum scoparium) honey. C. J. Adams, et al. Carbohydrate Research 343 (2008) 651-659. ² Corrigendum to "Isolation by HPLC and characterization of the bioactive fraction of New Zealand manuka (Leptospermum scoparium) honey" [Carbohydr. Res. 343 (2008) 651]. C. J. Adams, et al. Carbohydrate Research 344 (2009) 2609.	1.0 % Phenol Equivalent	1

These samples were collected by yourselves (or your agent) and analysed as received at the laboratory.

Testing was completed on 28-Aug-2026. For completion dates of individual analyses please contact the laboratory.

Samples are held at the laboratory after reporting for a length of time based on the stability of the samples and analytes being tested (considering any preservation used), and the storage space available. Once the storage period is completed, the samples are discarded unless otherwise agreed with the customer. Extended storage times may incur additional charges.

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