Hill Laboratories
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Certificate of Analysis

Client:	NZ Honey Farm Limited	**Lab No:**	3121197	HGPv1
Contact:	Ben Olijkan	**Date Received:**	22-Nov-2022	
	C/- NZ Honey Farm Limited	**Date Reported:**	28-Nov-2022	
	235 Buchanans Road	**Quote No:**		
	Christchurch 8042	**Order No:**		
		Client Reference:		
		Submitted By:	Ben Olijkan	

Sample Type: Honey

		Sample Name:	2211RM100	2211RD
		Lab Number:	3121197.1	3121197.2
MPI Manuka Classification				
MPI Manuka Honey Classification			Monofloral Manuka Honey	-
3-Phenyllactic acid (3-PA)	mg/kg		560	-
2'-Methoxyacetophenone (2'-MAP)	mg/kg		17.4	-
2-Methoxybenzoic acid (2-MBA)	mg/kg		9.7	-
4-Hydroxyphenyllactic acid (4-HPA)	mg/kg		10.0	-
Manuka DNA	Cq		25.32	-
Manuka Honey Analysis				
Dihydroxyacetone (DHA)	mg/kg		310	-
5-Hydroxymethylfurfural (HMF)	mg/kg		32.4	-
Methylglyoxal (MGO)	mg/kg		176	-
Non Peroxide Activity (NPA)*	% Phenol Equivalent		7.9	-
Glyphosate Analysis				
AMPA	mg/kg		< 0.010	< 0.010
Glufosinate	mg/kg		< 0.010	< 0.010
Glyphosate	mg/kg		0.047	< 0.010

Analyst's Comments

Sample 1 Comment:
The results presented on the Certificate of Analysis have been rounded to an appropriate number of significant figures, based on the Uncertainty of Measurement of the methods performed. The 'MPI Manuka Honey Classification' has been determined using unrounded values. In cases where one or more values were close to the critical levels (as defined by MPI), there may be a seeming inconsistency between the classification and the rounded values reported.

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 Laboratories, 28 Duke Street, Frankton, Hamilton 3204.

Sample Type: Honey

Test	Method Description	Default Detection Limit	Sample No
Individual Tests			
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