Hill Laboratories
TRIED, TESTED AND TRUSTED

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Certificate of Analysis

Client:	Tahi Estate Limited	**Lab No:**	2645547	POPv1
Contact:	Helen Sinclair C/- Tahi Estate Limited 1774 Pataua North Road RD 5 Whangarei 0175	**Date Received:**	29-Jun-2021	
		Date Reported:	02-Jul-2021	
		Quote No:		
		Order No:	202141	
		Client Reference:	Batch Testing	
		Submitted By:	Helen Sinclair	

Sample Type: Honey

Sample Name:	Batch 50213	Batch 50214
Lab Number:	2645547.1	2645547.2
Glyphosate LCMSMS Analysis		
Analytes Detected:	None	None

Please refer to the detection limits table for the list of analytes screened and their detection limits.

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
Glyphosate LCMSMS Analysis	Aqueous extraction, derivatisation. Analysis by LC-MS/MS. In-house. **RLP Official Test 8.47.1.**	0.0040 - 0.02 mg/kg	1-2

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

Testing was completed on 02-Jul-2021. 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.

Helen McGowan BSc (Tech)
Operations Support - Food & Bioanalytical

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Certificate of Analysis

Client:	Tahi Estate Limited	**Lab No:**	2645547	HGLYUPv1
Contact:	Helen Sinclair C/- Tahi Estate Limited 1774 Pataua North Road RD 5 Whangarei 0175	**Date Received:**	29-Jun-2021	
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		Quote No:		
		Order No:	202141	
		Client Reference:	Batch Testing	
		Submitted By:	Helen Sinclair	

Sample Type: Honey

Sample Name:		Batch 50213	Batch 50214		
Lab Number:		2645547.1	2645547.2		
Honey Glyphosate Analysis					
AMPA	mg/kg	< 0.02 ± 0.014	< 0.02 ± 0.014	-	-
Glufosinate	mg/kg	< 0.005 ± 0.0033	< 0.005 ± 0.0033	-	-
Glyphosate	mg/kg	0.0048 ± 0.0028	0.0085 ± 0.0028	-	-

The reported uncertainty is an expanded uncertainty with a level of confidence of approximately 95 percent (i.e. two standard deviations, calculated using a coverage factor of 2). Reported uncertainties are calculated from the performance of typical matrices, and do not include variation due to sampling.

For further information on uncertainty of measurement at Hill Laboratories, refer to the technical note on our website: www.hill-laboratories.com/files/Intro_To_UOM.pdf, or contact the laboratory.

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Detection Limits

Analytes	Detection Limit
Glyphosate LCMSMS Analysis	
AMPA	0.02 mg/kg
Glufosinate	0.005 mg/kg
Glyphosate	0.010 mg/kg