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Certificate of Analysis

Client:	Midlands Apiaries Limited	Lab No:	2404630	HGPv1
Contact:	Claudine McCormick	Date Received:	21-Jul-2020	
	C/- Midlands Apiaries Limited	Date Reported:	27-Jul-2020	
	PO Box 65	Quote No:	70096	
	Ashburton 7740	Order No:		
		Client Reference:	Starman/ Ecotrade	
		Submitted By:	Claudine McCormick	

Sample Type. Honey							
	Sample Name:	180720B2					
	Lab Number:	2404630.1					
C4 Sugar Analysis							
δ ¹³ C Honey (Whole)	‰	-25.7	-	-	-	-	
δ ¹³ C Honey (Protein)	‰	-26.7	-	-	-	-	
Difference (Whole - Protein)	‰	1.0	-	-	-	-	
C-4 Sugar Content	%	6.1	-	-	-	-	
Microbiological Analysis							
Aerobic Count 35°C	cfu / g	150	-	-	-	-	
Yeasts & Moulds	cfu / g	< 10	-	-	-	-	

Analyst's Comments

Sample 1 Comment:

C-4 Sugar Content:

As reported in AOAC method 998.12, pure honey (free of corn or cane sugars) with an exception of a few unusual varieties, yields a C-4 Sugar Content value of less than or equal to 7%. Some unusual varieties may slightly exceed this value, but will have a d ¹³C for honey which is in the normal range (more negative than -24.0‰).

Sample 1 Comment: C-4 Sugar Screen Results: Between 5.6% and 7.1% Some risk of failing AOAC method.

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					
C-4 Sugars Analysis (Screen Method)	This method is for screening purposes and should not be used for export certification. Methodology was performed in using a modified version of the AOAC method 998.12. All isotope ratios are reported as 'per mil' i.e. parts per thousand (‰), relative to the international standard for Carbon, VPDB.	-	1					
Aerobic Count 35°C	Automated MPN count on TEMPO AC, Incubated at 35°C for 22-28 hours. bioMérieux, TEMPO.	10 cfu / g	1					
Yeasts & Moulds	Automated MPN count on TEMPO YM, Incubated at 25°C for 72-76 hours. bioMérieux, TEMPO.	10 cfu / g	1					





This Laboratory is accredited by International Accreditation New Zealand (IANZ), which represents New Zealand in the International Laboratory Accreditation Cooperation (ILAC). Through the ILAC Mutual Recognition Arrangement (ILAC-MRA) this accreditation is internationally recognised.

The tests reported herein have been performed in accordance with the terms of accreditation, with the exception of tests marked *, which are not accredited.

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

Dates of testing are available on request. Please contact the laboratory for more information.

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.

This certificate of analysis must not be reproduced, except in full, without the written consent of the signatory.

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