



Certificate of Analysis

Client:	Forest & Bees Native Honey LP	Lab No:	1962407	SPV1
Contact:	Michael Everly C/- Forest & Bees Native Honey LP 155 Orlando Street Stratford 4332	Date Received:	13-Apr-2018	
		Date Reported:	17-Apr-2018	
		Quote No:		
		Order No:		
		Client Reference:	Batch 10, 2016	
		Submitted By:	Michael Everly	

Sample Type: Honey

Sample Name:	Batch 10, 2016				
Lab Number:	1962407.1				
Individual Tests					
NPA (Non Peroxide Activity)*	% Phenol Equivalent	15.2	-	-	-
3-in-1 Honey Analysis					
Dihydroxyacetone	mg/kg	990	-	-	-
5-hydroxymethylfurfural (HMF)	mg/kg	16.2	-	-	-
Methylglyoxal	mg/kg	527	-	-	-

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 clean 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.

Sample Type: Honey			
Test	Method Description	Default Detection Limit	Sample No
3-in-1 Honey Analysis	Aqueous extraction, derivatisation. Analysis by UPLC-UV (dihydroxyacetone, 5-hydroxymethylfurfural, methylglyoxal).	1.0 - 10 mg/kg	1
3-in-1 Honey Analysis with Forecasted Results	Water extraction, derivatisation, UPLC-UV analysis (dihydroxyacetone, 5-hydroxymethylfurfural, methylglyoxal). Calculation of Non Peroxide Activity (NPA). Forecasted DHA, HMF, MGO and NPA results based on in-house derived kinetic model.	-	1
NPA (Non Peroxide Activity)	NPA is calculated from methylglyoxal using a correlation curve based on published data for NPA and the primary active ingredient, methylglyoxal. (1,2). (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.

Samples are held at the laboratory after reporting for a length of time depending on the preservation used and the stability of the analytes being tested. Once the storage period is completed the samples are discarded unless otherwise advised by the client.

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

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Senior Laboratory Technician - Food & Bioanalytical



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