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Certificate of Analysis

The Wright Honey Co.

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Lab Reference:

19-06779

Submitted by:

Date Received: 6/03/2019 Date Completed: 7/03/2019

Order Number:

Reference: TWHC2013

Report Comments

Samples were collected by yourselves (or your agent) and analysed as received at Analytica Laboratories. Samples were in acceptable condition unless otherwise noted on this report.

Results Summary

3in1

1

(2)

(3)

(4)

Laboratory ID		D Sample ID			Dihydroxyacetone (DHA)			Methylglyoxal (MG)			Non-Peroxide Activity* (NPA)			Hydroxymethylfurfural (HMF)		
	サンプル I D		Units Reporting Limit	mg/kg 10		mg/kg 4			%w/v phenol eq. 0.8			mg/kg 1				
19-06779-1		T19a			1,530			211			8.8			3		

3in1 Approver:

①ジヒドロアセキシトンは、巣箱の中で熟成することでメチルグリオキサールに変容します

②メチルグリオキサール【MGO】は、マヌカハニーの抗菌力を示す数値です

Chris Wakefield, **B.Sc.(Tech)** 3非過酸化水素作用は、抗菌力を示す数値です。(NPA8.8レベル→UMFでいうところの8.8レベル)

④ヒドロキシメチルフルフラールは、低いほど良い。1kgあたり40mg以下でないといけません

Leptosperin

Honey Team Leader

Laboratory ID	Sample ID	Leptosperin				
	Units Reporting Limit	mg/kg 20				
19-06779-1	T19a	1,410				

※レプトスペリンは、高いほど純度の高さを示す数値です。

Leptosperin Approver:

Chris Wakefield, B.Sc.(Tech)

Honey Team Leader

Method Summary

3in1

Determination of Dihydroxyacetone (DHA), Methylglyoxal (MG) and Hydroxymethylfurfural (HMF) by aqueous extraction, derivatisation, and UPLC analysis.



Method Summary

NPA

Non-Peroxide Activity (NPA) values are not directly measured by the laboratory, but are calculated from the measured methylglyoxal concentration in the honey according to the requirements of the client. The calculation is based on published data(†) comparing the NPA and methylglyoxal concentration measured in a range of honey samples. These calculated values are not accredited by IANZ and do not imply that the honey is or is not manuka honey.

NPA values less than 5 are an estimate based on extrapolation of the relationship between methylglyoxal and NPA

(†) 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. And, Corrigendum to "Isolation by HPLC and characterization of the bioactive fraction of New Zealand manuka (Leptospermum scoparium) honey" [Carbohydr. Res. 343 (2008) 651]. Carbohydrate Research 344 (2009) 2609. C. J. Adams, et al.

Leptosperin

Aqueous extraction, dilution, analysis by UPLC.