



Certificate of Analysis

Tarata Honey for Bees & Trees Honey
 1900 Tarata Road
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Lab Reference: 22-18097
 Submitted by: E. Mateas - Orban
 Date Received: 18/05/2022
 Testing Initiated: 19/05/2022
 Date Completed: 23/05/2022
 Order Number: N/A
 Reference: TFNB15

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.
 Specific testing dates are available on request.

Results Summary

3in1 in Honey

Laboratory ID	Sample ID	Dihydroxyacetone (DHA)	Methylglyoxal (MG/MGO)	Non-Peroxide Activity* (NPA)	Hydroxymethylfurfural (HMF)
	<i>Units Reporting Limit</i>	mg/kg 40	mg/kg 8	%w/v phenol eq. 1.3	mg/kg 1
22-18097-1	TFNB15	668	382	12.5	18.0

3in1 in Honey Approver:

Devon Nolan, BBiomedSc(Hons)
 Honey Chemistry Team Leader

Leptosperin in Honey

Laboratory ID	Sample ID	Leptosperin
	<i>Units Reporting Limit</i>	mg/kg 20
22-18097-1	TFNB15	269

Leptosperin in Honey Approver:

Devon Nolan, BBiomedSc(Hons)
 Honey Chemistry Team Leader

Method Summary

3in1	Determination of Dihydroxyacetone (DHA), Methylglyoxal (MG/MGO) and Hydroxymethylfurfural (HMF) by aqueous extraction, derivatisation, and UPLC (diode array) analysis in accordance with in-house procedures.
NPA	<p>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</p> <p>(†) <i>Isolation by HPLC and characterisation of the bioactive fraction of New Zealand manuka (Leptospermum scoparium) honey.</i> C. J. Adams, et al. <i>Carbohydrate Research</i> 343 (2008) 651-659. And, <i>Corrigendum to "Isolation by HPLC and characterization of the bioactive fraction of New Zealand manuka (Leptospermum scoparium) honey" [Carbohydr. Res. 343 (2008) 651].</i> <i>Carbohydrate Research</i> 344 (2009) 2609. C. J. Adams, et al.</p>
Leptosperin	Aqueous extraction, dilution, analysis by UPLC-PDA/FLD in accordance with in-house procedures.