

3 3in1 Analysis



AgriTesting Laboratories
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Certificate of Analysis

3in1 Analysis					
Laboratory ID	Sample ID	Methylglyoxal (MGO)	Dihydroxyacetone (DHA)	Hydroxymethylfurfural (HMF)	Non-Peroxide Activity (NPA)*
	Units	mg/kg	mg/kg	mg/kg	%w/v phenol eq.
	Reporting Limit	5	50	2	0.8
22-J0194-1	JAZZ BAZZ D2	1132	1396	30.4	24.1
22-J0194-2	TRUE 630-119-2019	876	1155	40.6	20.7

Sample Receipt Comments

Samples received intact

Report Comments

None

Samples are tested as received by the laboratory. This report shall not be reproduced, except in full, without the written consent of the laboratory.

Authorised by:

Dr. Hari Saripalli

Key Technical Personnel

Method Summary

3in1 (MGO, DHA, and HMF): Aqueous extraction, UPLC analysis
Test performed at AgriTesting Laboratories, Taupo

Non Peroxide Activity (NPA)* 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.

Note: A full listing of compound details, measurement uncertainties and detection limits are available from the laboratory upon request. AgriTesting makes every effort to collect, analyse and report the results of tests accurately and promptly but accepts no responsibility for factors which influence the results that are beyond our control. E&EO.

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 * or any comments and interpretations, which are not accredited.



4 Colour, Conductivity, Moisture Analysis



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Laboratory ID	Sample ID	Moisture	Colour
	Units	%	Pfund (mm)
	Reporting Limit	N/A	N/A
22-J0295-1	Jazz Bazz 2Lang	17.8	75

Sample Receipt Comments

Samples received intact

Report Comments

None

Samples are tested as received by the laboratory. This report shall not be produced, except in full, without the written consent of the laboratory.

Authorised by:

Dr. Hari Saripalli

Key Technical Personnel

A handwritten signature in blue ink, appearing to read 'H. Saripalli'.

Method Summary

Moisture Moisture content determination by refractometer
Colour Clarified by heating, measured by Hanna colour meter
Tests performed at AgriTesting Laboratories, Taupo

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Certificate of Analysis

Non Peroxide Activity				
Laboratory ID	Sample ID	Conductivity		
		Units	$\mu\text{S/cm}$	
		Reporting Limit	N/A	
22-J0295-1	Jazz Bazz 2Lang	577		

Sample Receipt Comments

Samples received intact

Report Comments

None

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Authorised by:

Dr Hari Saripalli

Key Technical Personnel

Method(s) Summary

Conductivity

Honey is diluted to 20% (dry-weight/volume) with ultra-pure water, conductivity is determined with a conductivity electrode. Based on the Harmonised Method of the International Commission, 2009.
Test performed at AgriTesting Laboratories, Taupo

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