



## **Certificate of Analysis**

### Ngamaia Farms Ltd

1479 Diggers Valley Road KAITAIA 0481 KAITAIA Ngamaia Farms Ltd +6494088851 ngamaiafarms@gmail.com

### Lab tests performed by:

**Gribbles Scientific**, Invermay Campus, Puddle Alley Mosgiel, Dunedin 9092 New Zealand P/ (03) 489-2635 F/ (03) 489-8576 sales@gribblesscientific.co.nz www.gribblesscientific.co.nz

#### **SAMPLE NAME**

# NMF2070



LAB REFERENCE DU2122914

## Mānuka 3 in 1 (MGO, DHA, HMF, NPA)

DATE RECEIVED 19 Jul 2021

DATE COMPLETED 20 Jul 2021

ANALYTE	RESULT	METHOD	AUTHORISED APPROVER
DHA	2829 mg/kg	Solvent extraction, HPLC-UV	0
HMF	15 mg/kg	Solvent extraction, HPLC-UV	V. Hostandore
MGO	1127 mg/kg	Solvent extraction, HPLC-UV	Mandy Herbst-Johnstone
NPA	<b>24.1</b> % ph. eq.	Calculation	KTP

## **Method Summaries**

Mānuka 3 in 1 (MGO, DHA, HMF, NPA) FCHROM Honey 3-in-1

Dihydroxyacetone (DHA), methylglyoxal (MGO), and hydroxymethylfurfural (HMF) are analysed after solvent extraction and derivatisation followed by HPLC.

Reporting limits: 5 mg/kg MGO, 30 mg/kg DHA, and 1 mg/kg HMF.

NPA

Non-Peroxide Activity (NPA) is calculated as % phenol equivalent from the measured methylglyoxal concentration in the honey. The calculation is based on published data.

Adams et al. (2008), Carbohydrate Research 343 (4): 651-659 Adams et al. (2009), Carbohydrate Research 344: 2609 (Corrigendum)

Note: Results apply only to samples received, on an as found basis. Precision data will be supplied upon request. All tests reported herein have been performed in accordance with the laboratory's scope of accreditation with the exception of tests marked • which are not accredited. This test report shall not be reproduced except in full, without the written permission of Gribbles Scientific.



