

Certificate of Analysis

Page 1 of 2

| | | | | |
|-----------------|--------------------------|--------------------------|-------------|---------------|
| Client: | Egmont Honey Limited | Lab No: | 3583784 | HSDMM5ASP-1v1 |
| Contact: | Nick Walker | Date Received: | 17-May-2024 | |
| | C/- Egmont Honey Limited | Date Reported: | 17-May-2024 | |
| | 21 Connett Road | Quote No: | 105847 | |
| | Bell Block | Order No: | 24EG-906 | |
| | New Plymouth 4312 | Client Reference: | 275 | |
| | | Submitted By: | Nick Walker | |

MPI Manuka Classification

| | | |
|--------------|------------|---------------------------------|
| Sample Name: | Lab Number | MPI Manuka Honey Classification |
| 24EG-906 | 3583784.1 | Monofloral Manuka Honey |

MPI Manuka DNA

| | | |
|--------------|------------|------------|
| Sample Name: | Lab Number | Manuka DNA |
| 24EG-906 | 3583784.1 | Cq |
| | | 35.50 |

MPI Manuka Markers

| | | | | | |
|--------------|------------|-------------------------------|------------------------------------|----------------------------------|---------------------------------------|
| | | 3-Phenyllactic acid (3-PA) | 2'-Methoxyacetophenone (2'-MAP) | 2-Methoxybenzoic acid (2-MBA) | 4-Hydroxyphenyllactic acid (4-HPA) |
| Sample Name: | Lab Number | mg/kg | mg/kg | mg/kg | mg/kg |
| 24EG-906 | 3583784.1 | 900 | 27 | 6.2 | 8.1 |

MPI Manuka Classification Report: This report may represent a subset of the requested tests.

Analyst's Comments

Sample 1 Comment:

The results presented on the Certificate of Analysis have been rounded to an appropriate number of significant figures, based on the Uncertainty of Measurement of the methods performed. The 'MPI Manuka Honey Classification' has been determined using unrounded values. In cases where one or more values were close to the critical levels (as defined by MPI), there may be a seeming inconsistency between the classification and the rounded values reported.

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 simple 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. A detection limit range indicates the lowest and highest detection limits in the associated suite of analytes. A full listing of compounds and detection limits are available from the laboratory upon request. Unless otherwise indicated, analyses were performed at Hill Labs, 28 Duke Street, Frankton, Hamilton 3204.

| Sample Type: Honey | | | |
|---------------------------------|--|-------------------------|-----------|
| Test | Method Description | Default Detection Limit | Sample No |
| MPI 5 Attributes Tests | | | |
| MPI Manuka Honey Classification | Evaluation of results against Ministry of Primary Industries (MPI) criteria for classification of monofloral and multifloral Manuka honey. General Export Requirements for Bee Products - 27 October 2021. | - | 1 |
| Manuka Honey Chemistry Profile | | | |
| 3-Phenyllactic acid (3-PA) | Aqueous solvent extraction, dilution. LC-MSMS analysis. MPI Technical Paper 2017/30 (modified) RLP Official Test 10.05. | 5 mg/kg | 1 |
| 2'-Methoxyacetophenone (2'-MAP) | Aqueous solvent extraction, dilution. LC-MSMS analysis. MPI Technical Paper 2017/30 (modified) RLP Official Test 10.05. | 0.50 mg/kg | 1 |
| 2-Methoxybenzoic acid (2-MBA) | Aqueous solvent extraction, dilution. LC-MSMS analysis. MPI Technical Paper 2017/30 (modified) RLP Official Test 10.05. | 0.50 mg/kg | 1 |



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| Sample Type: Honey | | | |
|------------------------------------|---|-------------------------|-----------|
| Test | Method Description | Default Detection Limit | Sample No |
| 4-Hydroxyphenyllactic acid (4-HPA) | Aqueous solvent extraction, dilution. LC-MSMS analysis. MPI Technical Paper 2017/30 (modified) RLP Official Test 10.05. | 0.50 mg/kg | 1 |
| Manuka Honey PCR Profile | | | |
| Manuka DNA | Quantification of Manuka (<i>Leptospermum scoparium</i>) DNA by real time PCR. MPI Technical - Paper No: 2017/31 (modified). RLP Official Test 10.04. | > 36 Cq | 1 |

These samples were collected by yourselves (or your agent) and analysed as received at the laboratory.

Testing was completed on 17-May-2024. For completion dates of individual analyses please contact the laboratory.

Samples are held at the laboratory after reporting for a length of time based on the stability of the samples and analytes being tested (considering any preservation used), and the storage space available. Once the storage period is completed, the samples are discarded unless otherwise agreed with the customer. Extended storage times may incur additional charges.

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



Helen McGowan BSc (Tech)
Operations Support - Food & Bioanalytical