



Certificate of Analysis

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Lab Reference: 19-06779
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Report Comments

Samples were received by Analytica Laboratories in acceptable condition unless otherwise noted on this report.

Results Summary

マヌカの種別: モノフローラル マヌカ

MPI Manuka Classification*

Laboratory ID	Sample ID	MPI Manuka Classification*
19-06779-1	T19a サンプル I D	MONOFLORAL MANUKA

MPI Manuka Classification* Approver:

※モノフローラル、マルチフローラル
 マヌカとして認められない蜂蜜、の3種に区別されます

Maria Tourna, Ph.D.
 C4 & DNA Team Leader

MPI Manuka DNA

マヌカのDNA検査

Laboratory ID	Sample ID	Manuka DNA
Units Reporting Limit		Cq
19-06779-1	T19a	21.04

MPI Manuka DNA Approver:

※Cqの数値が36未満であること

Maria Tourna, Ph.D.
 C4 & DNA Team Leader

MPI Manuka Markers

Laboratory ID	Sample ID	①	②	③	④
		4-Hydroxyphenyllactic acid (4-HPLA)	2-Methoxybenzoic acid (2-MBA)	2'-Methoxyacetophenone (2'-MAP)	3-Phenyllactic acid (3-PLA)
Units Reporting Limit		mg/kg 0.8	mg/kg 0.8	mg/kg 0.8	mg/kg 20
19-06779-1	T19a	8.2	15	26	490

MPI Manuka Markers Approver:

- ①ヒドロキシフェニール乳酸は、1mg/kg以上であること
- ②メトキシ安息香酸は、1mg/kg以上であること
- ③メトキシアセトフェノン、5mg/kg以上であること → 高いほど純度が高い
- ④DL-3フェニル乳酸は、400mg/kg以上であること

Nicholas Kuan, M.Sc.
 Technologist

Method Summary

MPI Manuka Classification For classification as monofloral manuka, the following chemicals all need to be present and at these levels:

- 4-hydroxyphenyllactic acid at a level greater than or equal to 1mg/kg
- 2-methoxybenzoic acid at a level greater than or equal to 1mg/kg
- 2'-methoxyacetophenone at a level greater than or equal to 5mg/kg
- 3-phenyllactic acid at a level greater than or equal to 400mg/kg

And the DNA level from manuka pollen is less than Cq 36, which is approximately 3fg/ μ L.

For classification as multifloral manuka, the following chemicals all need to be present and at these levels:

- 4-hydroxyphenyllactic acid at a level greater than or equal to 1mg/kg
- 2-methoxybenzoic acid at a level greater than or equal to 1mg/kg
- 2'-methoxyacetophenone at a level greater than or equal to 1mg/kg
- 3-phenyllactic acid at a level greater than or equal to 20 mg/kg but less than 400mg/kg

And the DNA level from manuka pollen is less than Cq 36, which is approximately 3fg/ μ L.

MPI Manuka Markers

Solvent extraction, LC-MS/MS and HPLC analysis.

Analytica Laboratories Ltd., is approved by the New Zealand Ministry of Primary Industries to conduct this analysis under the Recognised Laboratory Programme (RLP Method 10.05).

MPI Manuka DNA

Samples were analysed as received by the Laboratory for Manuka Pollen DNA by pollen DNA extraction followed by qPCR.

Analytica Laboratories Ltd., is approved by the New Zealand Ministry of Primary Industries to conduct this analysis under the Recognised Laboratory Programme (RLP Method 10.04).

The DNA component of the MPI Manuka Honey Definition requires a Cq value of less than 36 to qualify for either a monofloral or multifloral manuka honey.