



**KONICK**  
SIMPLIFIED TRADING

## Manuka Honey Specifications

<b>Batch No</b>	090725
<b>Manufacturing Date</b>	22.04.25
<b>Best Before Date</b>	24 months
<b>Primary packaging Master Pack</b>	300Kg Drums
<b>Recommended storage conditions</b>	Store cool, dry place at a temperature $<+12^{\circ}\text{C}$ and humidity $<65\%$

Dihydroxyacetone(DHA)	mg/kg	566
5-Hydroxymethylfurfural (HMF)	mg/kg	20.9
Methylglyoxal (MGO)	mg/kg	317
Non Peroxide Activity (NPA)	% Phenol Equivalent	11.2
Leptosperin	mg/kg	191

Test	Method Description	Default Detection Limit
3-in-1 Honey method	Aqueous extraction, derivatisation. Analysis by uHPLC / UV-Vis (dihydroxyacetone, 5-hydroxymethylfurfural, methylglyoxal). In house.	1.0 -10 mg/kg
Leptosperin	Aqueous extraction, dilution, analysis by LC-MS/MS.	15 mg/kg
Non Peroxide Activity (NPA)	NPA is calculated from methylglyoxal using an industry accepted correlation curve based on published data <sup>1,2</sup> for NPA and the primary active ingredient, methylglyoxal. <sup>1</sup> Isolation by HPLC and characterisation of the bioactive fraction of New Zealand manuka ( <i>Leptospermum scoparium</i> ) honey. C. J. Adams, et al. Carbohydrate Research 343 (2008) 651-659. <sup>2</sup> Corrigendum to "Isolation by HPLC and characterization of the bioactive fraction of New Zealand manuka ( <i>Leptospermum scoparium</i> ) honey" [Carbohydr. Res. 343 (2008) 651]. C. J. Adams, et al. Carbohydrate Research 344 (2009) 2609.	1.0 % Phenol Equivalent

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BIC/SWIFT: KOMBCZPPXXX



## Monofloral Manuka Honey Specifications

<b>Batch No</b>	090725
<b>Manufacturing Date</b>	22.04.25
<b>Best Before Date</b>	24 months
<b>Primary packaging Master Pack</b>	300Kg Drums
<b>Recommended storage conditions</b>	Store cool, dry place at a temperature <+12°C and humidity <65%

<b>Physical Analysis</b>		
Colour	mm Pfund	85
Moisture	g/100g as rcvd	18.6
<b>Diatase Analysis -Nitrophenol Method</b>		
Diastase Activity	DN	17
<b>Glyphosate Analysis</b>		
AMPA	mg/kg	< 0.010
Glufosinate	mg/kg	< 0.010
Glyphosate	mg/kg	Not detected
3-Phenyllactic acid (3-PA)	mg/kg	520
2'-Methoxyacetophenone (2'-MAP)	mg/kg	9.3
2-Methoxybenzoic acid (2-MBA)	mg/kg	8.0
4-Hydroxyphenyllactic acid (4-HPA)	mg/kg	4.9
Manuka DNA	CQ	25.38
<b>Manuka Honey Analysis</b>		
Dihydroxyacetone (DHA)	mg/kg	599
5-Hydroxymethylfurfural (HMF)	mg/kg	13.2
Methylglyoxal (MGO)	mg/kg	300
Non Peroxide Activity (NPA)*	% Phenol Equivalent	10.8
<b>Tutin Analysis</b>		
Tutin Result Evaluation	Pass/Fail	Pass
Tutin	mg/kg	< 0.010
MRL as per Tutin in Honey Food(Standard 2016)	mg/kg	0.70
<b>C-4 Sugar Analysis -AOAC method</b>		
δ13C Honey (Whole)	%	-26.09
δ13C Honey (Protein)	%	-26.80
Difference (Whole -Protein)	%	0.7
C-4 Sugar Content	%	4.2
<b>Microbiological Analysis</b>		
Aerobic Count 35°C	cfu /g	390

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Yeasts & Moulds	cfu /g	< 10
<b>American Foulbrood Analysis</b>		
American Foulbrood (AFB)		Not Detected
American Foulbrood (AFB)	Spores and/or cells per g	< 92

Test	Method Description	Default Detection Limit
Moisture	Refractometer. Harmonised Methods of the International Honey Commission (2009). Method 1 -Determination of Moisture, Refractometric Method. (modified).	13.0 g/100g as rcvd
Diastase Activity	Diastase activity is conveyed as the diastase number (DN), equivalent to Schade units or Gothe units. Modified DIN 10750-2 -Analysis of Honey – Determination of diastase activity -Part 2: Nitrophenol-based process.	0.8DN
3-in-1 Honey method	Aqueous extraction, derivatisation. Analysis by uHPLC / UV-Vis (dihydroxyacetone, 5-hydroxymethylfurfural, methylglyoxal). In house.	1.0 -10 mg/kg
C-4 Sugars Analysis - AOAC method	Methodology was performed in accordance with AOAC Official Method 998.12 (Revised First Edition 2013), C-4 Plant Sugars in Honey, using Internal Standard Stable Carbon Isotope Ratio Analysis (ISCIRA). All isotope ratios are reported as 'per mil' i.e. parts per thousand (‰), and are reported relative to the international standard for Carbon, V-PDB.	
Colour	Determination of colour in honey using Honey Colour Analyser.	0 mm Pfund
Non Peroxide Activity (NPA)	NPA is calculated from methylglyoxal using an industry accepted correlation curve based on published data <sup>1,2</sup> for NPA and the primary active ingredient, methylglyoxal. <sup>1</sup> 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. <sup>2</sup> 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.	1.0 % Phenol Equivalent
Tutin Analysis in Honey	Solvent extraction, dilution. Analysis by LC-MS/MS. Results are representative of the liquid honey, not the sample as a whole.	0.010 mg/kg

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	<p>Tutin Result Evaluation (PASS/FAIL) The PASS/FAIL result is based on comparison of the tutin result with the "Food Standard: Tutin in Honey (2016)". A result that falls at or BELOW the maximum permitted tutin level will give a PASS result. A result that falls ABOVE the maximum permitted tutin level will give a FAIL result.</p> <p>Individual Sample Testing Recommended? Where a tutin result for a composited sample is above the maximum permitted level, it is recommended that the individual samples are retested. Please contact the laboratory to arrange for individual sample retesting. RLP Official Test 8.42.</p>	
Aerobic Count 35°C	Automated MPN count on TEMPO AC, Incubated at 35°C for 22-28 hours. bioMérieux, TEMPO.	10 cfu / g
Yeasts & Moulds	Automated MPN count on TEMPO YM, Incubated at 25°C for 72-76 hours. bioMérieux, TEMPO.	10 cfu / g
Glyphosate LC-MS/MS Analysis	Aqueous extraction, Analysis by LC-MS/MS. In-house. RLP Official Test 8.47.1	0.010 mg/kg
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.	

3-Phenyllactic acid (3-PA)	Aqueous solvent extraction, dilution. LC-MS/MS analysis. MPI Technical Paper 2017/30 (modified) RLP Official Test 10.05.	5 mg/kg
2'-Methoxyacetophenone (2'-MAP)	Aqueous solvent extraction, dilution. LC-MS/MS analysis. MPI Technical Paper 2017/30 (modified) RLP Official Test 10.05.	0.50 mg/kg
2-Methoxybenzoic acid (2-MBA)	Aqueous solvent extraction, dilution. LC-MS/MS analysis. MPI Technical Paper 2017/30 (modified) RLP Official Test 10.05.	0.50 mg/kg
4-Hydroxyphenyllactic acid (4-HPA)	Aqueous solvent extraction, dilution. LC-MS/MS analysis. MPI Technical Paper 2017/30 (modified) RLP Official Test 10.05.	0.50 mg/kg

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### 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
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### American Foulbrood Profile

American Foulbrood (AFB)	Quantification of <i>Paenibacillus</i> larvae, causative agent of American foulbrood (AFB), using real time PCR analysis. RLP Official Test 2.14.	92 Spores and/or cells per g
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