



Certificate of Analysis

Ecotrade GmbH
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Berlin
10405
GERMANY

Date: 15-Jun-20
Lab Reference: 290520B1-1

Product Details

Contract Number: H200414
Item Number: FECO400+500
Product Description: Ecotrade Manuka Honey 400+ 500g

Batch Number: 290520B1-1
Manufacture Date: 03/06/2020
Best Before: 02/06/2024

Analysis	Actual Result	Units		Method	Default Detection Limit
Moisture	19.2	%	≤ 20	Refractometer	0.10%
Colour	95	mm Pfund	≥ 70	Honey Colour Photometer	1mm
Conductivity	0.543	mS/cm	≥ 0.500	Conductivity Meter	-
Manuka Pollen	81.1	%	≥ 70	Harmonized Method of the IHC	-
C4 Sugars*	6.4	%	≤ 7	AOAC 998.12.	-
NPA (Non Peroxide Activity)*	13.2	% Phenol Equivalent	≥ 10.8	Calculated from Methylglyoxal	1
3-Phenyllactic acid*	740	mg/kg	≥ 400	LC-MSMS, RLP Official Test 10.05	10.0 mg/kg
2-Methoxyacetophenone*	14.0	mg/kg	≥ 5.0	LC-MSMS, RLP Official Test 10.05	1.0 mg/kg
2-Methoxybenzoic acid*	6.9	mg/kg	≥ 1.0	LC-MSMS, RLP Official Test 10.05	1.0 mg/kg
4-Hydroxyphenyllactic acid*	6.9	mg/kg	≥ 1.0	LC-MSMS, RLP Official Test 10.05	1.0 mg/kg
Aerobic Plate Count 35C*	160	cfu/g	≤ 1000	MPN TEMPO AC	10 cfu/g
Yeasts & Moulds*	<10	cfu/g	≤ 50	MPN TEMPO YM	10 cfu/g
Manuka Cq*	24.92	Cq	≤ 36	PCR, RLP Official Test 10.04	1.0 Cq
Dihydroxyacetone (DHA)*	720	mg/kg	≥ 600	Aqueous Extraction, Derivatisation, UPLC Analysis	1.0-10.0 mg/kg
Methylglyoxal (MGO)*	416	mg/kg	≥ 400	Aqueous Extraction, Derivatisation, UPLC Analysis	1.0-10.0 mg/kg
Hydroxymethylfurfural (HMF)*	21	mg/kg	≤ 30	Aqueous Extraction, Derivatisation, UPLC Analysis	1.0-10.0 mg/kg
Sucrose*	1.96	%(m/m)	≤ 5.0	AOAC 980.13	0.05
Free Acidity	24	meq acid/kg	≤ 50	Titration AOAC 962.19	0 mEq of Acid/kg
Diastase Activity*	10	DN	≥ 8	Phadebas Amylase	2DN
Fructose + Glucose*	72.5	%(m/m)	≥ 60	AOAC 980.13	0.05
	Fructose 39.3	%(m/m)			0.05
	Glucose 33.2	%(m/m)			0.05

Honey samples are held at the Midlands Sample room for the length of time depending on the expiry date after reporting. Once the storage period is completed the samples are discarded unless advised by the clients.

≥ means not less than, ≤ means not more than.

* Indicates an analysis that carried out by external Laboratory.

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