

Client:



Gardener
184 Cavan Road
5094 Dry Creek - South Australia
Australia

Your order no. 72953

Our reference no.	: PI1902120208		
Product	: Honey		
Sample description / Batch	: Intake # Import 13082		
Sample received on / transported by	: 12.02.2019 via Parcel service	Seal	: none
Sample temp. when received / stored	: RT	Sampling	: Client
Packaging / Quantity	: Plastic container / 2 x ca. 170g	Start / End of analysis	: 14.02.2019 / 15.02.2019

ANALYSIS REQUESTED: Honey profiling by NMR (101750)

Parameter	Result	Method
NMR profile	typical	NMR (a) ¹
Indications for adulteration	no	NMR (a) ¹

(a) : accredited method. (na) : not accredited method. (1) Bruker Honey Profiling 2.0 / expert assessment
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Interpretation:

The NMR profile is typical for honey. There were no deviations detected according to reference database entries. Regarding the examined parameters the sample corresponds to the legal regulations (Honey directive 2001/110/EC dated Dec. 20th, 2001; Article 1 in connection with Annex II).

Daniel Schaal
Responsible Scientist, MSc Biochemistry

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ANALYSIS REQUESTED: Determination of honey-foreign oligosaccharides by LC-ELSD (101606)

Parameter	Result	Unit	Method
Foreign oligosaccharides	n.d.	%	LC-ELSD (a)
n.a.: not analyzed; n.d.: not detectable < limit of quantification (LOQ), LOQ: 0.1 %; Reported value represents foreign oligosaccharides with a degree of polymerization > 4 SPECIFICATIONS OF PURE HONEY: foreign oligosaccharides: n.d. (a) : accredited method. (na) : not accredited method. This document may only be reproduced in full. The results given herein apply to the submitted sample only.			

Interpretation:

Honey-foreign oligosaccharides were not detected in the investigated honey sample. Therefore, the sample meets the requirements for pure honey in this respect (Council Directive 2001/110/EC from 20/12/2001).

Dr. James Collins
Responsible Scientist, MEarthSci

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ANALYSIS REQUESTED: 13C Isotope Analysis (EA-IRMS) C4 Sugar in Honey (101205)

Parameter	Result	Unit	Method
Protein (P)	-25.0	d13C(‰)	PM DE01_026 (a) ¹
Honey (H)	-25.3	d13C(‰)	PM DE01_026 (a) ¹
Difference (P - H)	0.3	d13C(‰)	PM DE01_026 (a) ¹
C4-sugar	0.0	%	PM DE01_026 (a) ¹

n.a.: not analyzed; n.d.: not detected; d13C value in permil. vs. V-PDB standard

SPECIFICATIONS

C4 < 7 %: the sample is not adulterated with C4 sugars;
 C4 >= 7 %: the sample is adulterated with C4 sugars

(a) : accredited method. (na) : not accredited method. (1) AOAC 998.12

This document may only be reproduced in full. The results given herein apply to the submitted sample only.

Interpretation:

The result does not indicate an addition of sugar issued from C4 plants (according to AOAC method 998.12; Journal of AOAC International 1995, revision March 1999, chapter 44, p. 27-30). Regarding the examined parameter the sample corresponds to the legal regulations. (2001/110/EC dated Dec. 20th, 2001; Article 1 connected with Annex II).

Dr. James Collins
 Responsible Scientist, MEarthSci