

Client:

**Brother Bees Honey (PTY) Ltd.**

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<b>Our reference no.</b>	: <b>PI2301240078</b>		
Product	: Honey		
Sample description / Batch	: <b>AGR 01/23/0248-4 BATCH # (JAN 2023)</b>		
Sample received on / transported by	: 24.01.2023 via Parcel service	Seal	: none
Sample temp. when received / stored	: RT	Sampling	: Client
Packaging / Quantity	: Dispenser / ca. 520g	Start / End of analysis	: 24.01.2023 / 31.01.2023

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

Parameter	Result	Unit	Method
Protein (P)	-24.14	d13C(‰)	PM DE01.026:2022-04 (a) <sup>1</sup>
Honey (H)	-24.86	d13C(‰)	PM DE01.026:2022-04 (a) <sup>1</sup>
Difference (P - H)	0.72	d13C(‰)	PM DE01.026:2022-04 (a) <sup>1</sup>
C4 sugar	0.0	%	PM DE01.026:2022-04 (a) <sup>1</sup>

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

**SPECIFICATIONS**

C4 ≤ 7.0 %: the sample is not adulterated with C4 sugars;  
C4 > 7.0 %: the sample is adulterated with C4 sugars

Expanded measurement uncertainties are as follows: Protein: ±0.4 ‰; Honey: ±0.4 ‰

(a) : accredited method. (na) : not accredited method. (1) AOAC 998.12:2013

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**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, Revised First Action 2013). Regarding the examined parameter the sample corresponds to the legal regulations. (2001/110/EC dated Dec. 20th, 2001; Article 1 connected with Annex II).



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