

Client:


 21611080136
 PA205662

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Our reference no.	: PI1611020128		
Product	: Honey		
Sample description / Batch	: A-51 mézmenta - 0002747351		
Sample received on / transported by	: 28.10.2016 via Parcel service	Seal	: none
Sample temp. when received / stored	: RT	Sampling	: Client
Packaging / Quantity	: Plastic container / ca.100g	Start / End of analysis	: 03.11.2016 / 07.11.2016

ANALYSIS REQUESTED: 13C Isotope Analysis by EA/LC (C4/C3-Sugars) (101158)

Parameter	Result	Unit	Method
Protein *	-25.50	d13C(‰)	PM DE01_026 (a) ¹
Honey	-26.20	d13C(‰)	PM DE01_026 (a) ¹
Fructose (F)	-26.07	d13C(‰)	PM DE01_094 (a) ²
Glucose (G)	-26.35	d13C(‰)	PM DE01_094 (a) ²
Disaccharides	-26.32	d13C(‰)	PM DE01_094 (a) ²
Trisaccharides	-25.24	d13C(‰)	PM DE01_094 (a) ²
Oligosaccharides	n.a.	d13C(‰)	PM DE01_094 (a) ²
Delta d13C (F-G)	0.28	d13C(‰)	PM DE01_094 (a) ²
Delta d13C (max.)	-1.11	d13C(‰)	PM DE01_094 (a) ²
C4 Sugar Content	0.00	%	PM DE01_026 (a) ¹
F/G Ratio	1.05		PM DE01_094 (a) ²
Portion of Disaccharides	5.08	%	PM DE01_094 (a) ³
Portion of Trisaccharides	0.78	%	PM DE01_094 (a) ³
Portion of Oligosaccharides	n.d.	%	PM DE01_094 (a) ³

LC-IRMS is not an official method for F/G ratio; n.a.: not analyzed; n.d.: not detected < 0.7 %; d13C value in permil. vs. V-PDB standard

* not considered for Delta d13C (max.) calculation if affected by high yeast content (Yeast determination from Delta d13C (max.) \geq 2.1 ‰ on)

SPECIFICATIONS OF PURE HONEY:

Delta d13C (F - G): not more than +/- 1.0 ‰
 Delta d13C (max.) of individual d13C values: not more than +/- 2.1 ‰
 C4 sugar content: < 7 %; portion of oligosaccharides: n.d.

(a) : accredited under terms of DIN EN ISO/IEC 17025. (na) : not accredited method. (1) AOAC 998.12

(2) Apidologie 39/5 (2008) 574-587 (3) Apidologie 39/5 (2008) 574-587; % related to total sugars.

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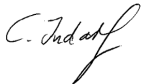
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Interpretation:

The sample meets the specifications of pure honey. Foreign sugars were not detected.



Dr. Caroline Indorf
Responsible Scientist, Certified Food Chemist