

# Test Report No. 210-1077230

QSI GmbH - Flughafendamm 9a - D-28199 Bremen

Elixir Raw Honey

82 Mt Lindesay Road, Scotsdale,  
6333 Denmark, Western Australia  
AUSTRALIA

Date: 20-Feb-2023

<b>Customer No.:</b>	<b>13194</b>	<b>Sample No.:</b>	<b>455384</b>
Product:	Honig/Honey		
<b>Label: Batch 2121</b>			
Arrival Date:	13-Feb-2023	Start / End of Analysis:	13-Feb-2023 / 20-Feb-2023
Kind/Origin:	Australia Dryandra	Packaging:	Kunststoff / plastic
Seal:	unverletzt/intact	Temp.:	RT

## AOAC 998.12 VA40260 C4 sugar detection in honey, 13C-Isotope-Mass-Spectrometry, mod.^

Parameter	Unit	Result
Honey (H)	d-13C ‰	-27,88
Protein (P)	d-13C ‰	-27,60
Difference Protein - Honey (P-H)	d-13C ‰	+0,28
C4-sugar content*	approx. %	0,00
Adulteration with C4-sugars		nicht verfälscht/not adulterated

Accredited method

Interpretation of the result: White et al., Journal of AOAC International, Vol. 81, No. 3, 1998

\* related to average d13C value of corn syrup of -9.7‰ vs. V-PDB Standard

^ Weighing, sample preparation, determination of carbon isotopes, for honey and protein

n.b.: not determinable, because not enough protein can be precipitated for the measurement

The expanded relative measurement uncertainty is 3 % (coverage factor k=2.58; confidence interval 99 %) without taking the sampling into account.

### Conclusion:

The determined difference of the isotopic values d-13C Protein - Honey (P-H) shows that this honey sample is not adulterated with C4-sugars (e.g. corn and cane products). With regard to the investigated parameter the honey corresponds to the legal regulations (EU Honey directive 2001/110/EC, Annex 2 Part 1).



Isabel Tipke  
Test Manager  
Food Chemist

This examination is the basis for special decision guidance.

The test results are exclusively related to the items tested for this sample in the above mentioned time frame for analysis. Method and measurement uncertainty details are available upon request. This report is allowed to be copied completely and unchanged but not in extracts. Furthermore, as well as for statements regarding conformity our General Terms and Conditions of Business are applicable.

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