



CERTIFICATE OF ANALYSIS

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Lab Reference: 25-16971
Submitted by:
Date Received: 16/06/2025
Testing Initiated: 16/06/2025
Date Completed: 24/06/2025
Order Number:
Reference:

Report Comments

Samples were collected by yourselves (or your agent) and analysed as received at ALS NZ (or at the subcontracted laboratories, when applicable). Samples were in acceptable condition unless otherwise noted on this report. Specific testing dates are available on request.

Results Summary

Client Sample ID			Clover 88.5
Laboratory ID			25-16971-3
Analyte	Unit	Reporting Limit	Result
C4 Sugars in Honey (Screen)			
(Whole Honey) $\delta^{13}\text{C}$	‰		-25.36
(Protein Extract) $\delta^{13}\text{C}$	‰		-27.33
Difference (Honey - Protein)	‰		1.97
%C4 Sugars	%		11.2
Physical Properties of Honey Suite			
Moisture	%		16.4

Regan Fisher
Laboratory Technician

Joshua Doughty
Laboratory Technician

Bhumika Patel
Sample Reception Technician

Method Summary

C4 Sugars (Screen)

The C4 sugars screening method is a modification of the AOAC 998.12 method. Honey requiring a C4 sugars test for export certification should be tested by the AOAC 998.12 standard method (also available from Analytica Laboratories).

Stable carbon isotope ratios for whole honey and protein extracted from the honey, are measured using isotope ratio mass spectrometry (IR-MS). An estimate of the C4 sugars content is derived from the difference between the whole honey and protein extract stable carbon isotope ratios.

Moisture

Moisture content determination by refractometer (AOAC 969.38B).