



Certificate of Analysis

Midlands Apiaries Ltd
 6 JB Cullen Drive
 Ashburton 7772
 Attention: Claudine McCormick
 Phone: 021 369 737
 Email: claudine.mccormick@midlands.co.nz

Lab Reference: 20-05862
 Submitted by: Lily.zhao
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Report Comments

Samples were collected by yourselves (or your agent) and analysed as received at Analytica Laboratories. Samples were in acceptable condition unless otherwise noted on this report.

Results Summary

C4 Sugars (AOAC)

Laboratory ID	Sample ID	$\delta^{13}\text{C}$ (Whole Honey)	$\delta^{13}\text{C}$ (Protein Extract)	Difference (Honey – Protein)	%C4 Sugars
	<i>Units Reporting Limit</i>	‰	‰	‰	%
20-05862-1	100220B1A-1	-25.69	-26.58	0.89	5.3

C4 Sugars (AOAC) Approver:

Kirandeep Pannu, M.Sc (Hons)
 Technician

Method Summary

C4 Sugars (AOAC)

The C4 sugars were determined according to the international AOAC 998.12 standard method. Stable carbon isotope ratios for the whole honey and honey protein, are measured using isotope ratio mass spectrometry (IRMS) or cavity ring-down spectroscopy (CRDS). An estimate of the C4 sugars content is derived from the difference in $\delta^{13}\text{C}$ between the whole honey and protein extract.