

## Laboratory Test Report

Forest Herbs Research Ltd  
P.O. Box 912  
Nelson  
Attention: Terry Bone  
Phone: 03 546 6300  
Email: [terry@forestherbs.co.nz](mailto:terry@forestherbs.co.nz)

Laboratory Reference: 141738  
Submitted by: Terry Bone  
Date Received: 4-Sep-14  
Date Completed: 8-Sep-14  
Order No. / Ref:  
Report Status: Final

### Sample Submission Summary

Sample Type	Number	Condition on Arrival
Honey	1	Acceptable

### Results Summary

Laboratory ID	Sample ID	DHA (Dihydroxyacetone) mg/kg	MG (Methylglyoxal) mg/kg	NPA <sup>1</sup> (phenol equivalent) %w/v	HMF (Hydroxymethylfurfural) mg/kg
141738_001	MKH14E-16	1901	545	15.5	6.4

Note 1: NPA number calculated from the UMFHA website using the conversion calculation from Methylglyoxal to NPA. This conversion to NPA is outside the IANZ accreditation scope.

### Method Summary

Samples were analysed as received by the Laboratory using the 3-in-1 honey method, which involves aqueous extraction, derivatisation, and analysis by UPLC with diode array detection.

	DHA (mg/kg)	MG (mg/kg)	NPA (%w/v)	HMF (mg/kg)
<b>Reporting Limits =</b>	<b>10</b>	<b>4.0</b>	<b>0.8</b>	<b>1</b>

Analyst Comments: None



Terry Braggins, Ph.D.  
Executive Director, Food and Biologicals  
Analytica Laboratories Ltd.