



Certificate of Analysis

Client:	Tahi Estate Limited	Lab No:	2754220	POPv1
Contact:	Helen Sinclair	Date Received:	03-Nov-2021	
	C/- Tahi Estate Limited	Date Reported:	09-Nov-2021	
	1774 Pataua North Road	Quote No:	53068	
	RD 5	Order No:	202170	
	Whangarei 0175	Client Reference:	MR2 Testing	
		Submitted By:	Helen Sinclair	

Sample Type: Honey

Sample Name:	50213	50214	50215		
Lab Number:	2754220.1	2754220.2	2754220.3		
Multiresidue Analysis 2 - Honey Samples					
Analytes Detected:	None	None	None		

Please refer to the detection limits table for the list of analytes screened and their detection limits.

Summary of Methods

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively simple matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis. A detection limit range indicates the lowest and highest detection limits in the associated suite of analytes. A full listing of compounds and detection limits are available from the laboratory upon request. Unless otherwise indicated, analyses were performed at Hill Laboratories, 28 Duke Street, Frankton, Hamilton 3204.

Sample Type: Honey

Test	Method Description	Default Detection Limit	Sample No
Multiresidue Analysis 2 - Honey Samples	Solvent extraction, SPE cleanup, dilution. Analysis by LC-MS/MS. In-house (using a Citrate buffered QuEChERS extraction).	0.010 - 0.3 mg/kg	1-3

These samples were collected by yourselves (or your agent) and analysed as received at the laboratory.

Testing was completed on 09-Nov-2021. For completion dates of individual analyses please contact the laboratory.

Samples are held at the laboratory after reporting for a length of time based on the stability of the samples and analytes being tested (considering any preservation used), and the storage space available. Once the storage period is completed, the samples are discarded unless otherwise agreed with the customer. Extended storage times may incur additional charges.

This certificate of analysis must not be reproduced, except in full, without the written consent of the signatory.

Shaun Clay BSc
Senior Technologist - Food and Bioanalytical



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Detection Limits

Analytes	Detection Limit	Analytes	Detection Limit	Analytes	Detection Limit
Multiresidue Analysis 2 - Honey Samples					
Abamectin	0.02 mg/kg	Flutolanil	0.010 mg/kg	Sulfoxaflor	0.010 mg/kg
Acetamiprid	0.010 mg/kg	Fluxapyroxad	0.010 mg/kg	Tebufenozide (Mimic)	0.010 mg/kg
Aldicarb	0.010 mg/kg	Forchlorfenuron	0.010 mg/kg	Teflubenzuron	0.04 mg/kg
Aldicarb sulfone	0.010 mg/kg	Gibberellic acid (GA3)	0.010 mg/kg	Tepraloxymid	0.010 mg/kg
Aldicarb sulfoxide	0.010 mg/kg	Halaluxifen-methyl	0.010 mg/kg	Tetraconazole	0.010 mg/kg
Ametoctradin	0.010 mg/kg	Heptenophos	0.010 mg/kg	Thiabendazole	0.010 mg/kg
Ametryn	0.010 mg/kg	Imidacloprid	0.010 mg/kg	Thiacloprid	0.010 mg/kg
Anilazine	0.05 mg/kg	Indaziflam	0.010 mg/kg	Thiamethoxam	0.010 mg/kg
Anilofos	0.010 mg/kg	Iodocarb (IPBC)	0.03 mg/kg	Thifluzamide	0.010 mg/kg
Azadirachtin	0.04 mg/kg	Ipconazole	0.010 mg/kg	Thiophanate-methyl	0.010 mg/kg
Benzalkonium Chloride (C10)	0.05 mg/kg	Isoproturon	0.010 mg/kg	Triadimenol	0.010 mg/kg
Benzalkonium Chloride (C12)	0.2 mg/kg	Isopyrazam	0.010 mg/kg	Trichlorfon	0.010 mg/kg
Benzalkonium Chloride (C14)	0.2 mg/kg	Isoxathion	0.010 mg/kg	Triflumuron	0.010 mg/kg
Benzalkonium Chloride (C16)	0.05 mg/kg	Isoxathion oxon	0.010 mg/kg	Triforine	0.010 mg/kg
Bixafen	0.010 mg/kg	Lufenuron	0.10 mg/kg	Uniconazole	0.010 mg/kg
Boscalid	0.010 mg/kg	Mandipropamid	0.010 mg/kg		
Carbendazim (including Benomyl and Thiophanate)	0.010 mg/kg	Mandestrobin	0.010 mg/kg		
Carfentrazone-ethyl	0.010 mg/kg	Mesotrione	0.019 mg/kg		
Chlorantraniliprole	0.010 mg/kg	Metamitron	0.010 mg/kg		
Chloridazon	0.010 mg/kg	Metaldehyde	0.2 mg/kg		
Clethodim	0.010 mg/kg	Metconazole	0.010 mg/kg		
Clofentezine	0.010 mg/kg	Methabenzthiazuron	0.010 mg/kg		
Clothianidin	0.02 mg/kg	Methomyl	0.010 mg/kg		
Cyantraniliprole	0.03 mg/kg	Methoxyfenozide	0.010 mg/kg		
Cyazofamid	0.010 mg/kg	Methyl anthranilate	0.10 mg/kg		
Cyflufenamid	0.010 mg/kg	Metrafenone	0.010 mg/kg		
Cymoxanil	0.010 mg/kg	Milbemectin	0.03 mg/kg		
Didecyldimethylammonium chloride (DDAC)	0.10 mg/kg	Novaluron	0.010 mg/kg		
Desmedipham	0.010 mg/kg	Octhilinone	0.04 mg/kg		
Diethofencarb	0.010 mg/kg	Oryzalin	0.02 mg/kg		
Diffubenzuron	0.03 mg/kg	Oxamyl	0.010 mg/kg		
Dinotefuran	0.010 mg/kg	Oxathiapirolin	0.010 mg/kg		
Dodine	0.08 mg/kg	Pencycuron	0.03 mg/kg		
Emamectin	0.03 mg/kg	Penflufen	0.010 mg/kg		
Empenthrin	0.3 mg/kg	Penthiopyrad	0.010 mg/kg		
Ethofumesate	0.010 mg/kg	Phenmedipham	0.010 mg/kg		
Etobenzanid	0.010 mg/kg	Propamocarb	0.010 mg/kg		
Fenamidone	0.010 mg/kg	Propargite	0.010 mg/kg		
Fenbuconazole	0.010 mg/kg	Proquinazid	0.010 mg/kg		
Fenhexamid	0.04 mg/kg	Prothioconazole-desthio	0.010 mg/kg		
Fenoxycarb	0.010 mg/kg	Pydiflumetofen	0.010 mg/kg		
Fenpropidin	0.010 mg/kg	Pyraclostrobin	0.010 mg/kg		
Fenpyrazamine	0.010 mg/kg	Pyridaphenthion	0.010 mg/kg		
Fenpyroximate	0.010 mg/kg	Pyrifluquinazon	0.010 mg/kg		
Fipronil	0.010 mg/kg	Quinoxifen	0.010 mg/kg		
Flonicamid	0.010 mg/kg	Saflufenacil	0.010 mg/kg		
Fluazinam	0.010 mg/kg	Sethoxydim	0.010 mg/kg		
Flufenoxuron	0.010 mg/kg	Spinetoram	0.010 mg/kg		
Florasulam	0.010 mg/kg	Spinosad	0.010 mg/kg		
Flumethrin	0.019 mg/kg	Spiromesifen	0.010 mg/kg		
Flumetsulam	0.010 mg/kg	Spiromesifen-enol	0.010 mg/kg		
Flumioxazin	0.02 mg/kg	Spirotetramat	0.010 mg/kg		
Fluopicolide	0.010 mg/kg	Spirotetramat-cis-enol	0.010 mg/kg		
Fluopyram	0.010 mg/kg	Spirotetramat-cis-keto-hydroxy	0.010 mg/kg		
Flusulfamide	0.010 mg/kg	Spirotetramat-enol-glucoside	0.010 mg/kg		
		Spirotetramat-mono-hydroxy	0.010 mg/kg		
		Spiroxamine	0.010 mg/kg		