R J Hill Laboratories Limited
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Blenheim 7202 New Zealand

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+64 7 858 2000
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Certificate of Analysis

Client:	Vintech Pacific Limited	**Lab No:**	3548382 SPv1
Contact:	Brett Barnes	**Date Received:**	18-Apr-2024
	C/- Vintech Pacific Limited	**Date Reported:**	19-Apr-2024
	PO Box 2160	**Quote No:**	130482
	Gisborne 4040	**Order No:**	
		Client Reference:	
		Submitted By:	Brett Barnes

Sample Type: Spirits

	Sample Name:	45% Alcohol Batch One	47% Alcohol Batch Two
	Lab Number:	3548382.1	3548382.2
Actual Alcoholic Strength	% v/v	45.8	47.5
Total Sulphur Dioxide	mg/L	< 10	50

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 Labs, 28 Duke Street, Frankton, Hamilton 3204.

Sample Type: Spirits

Test	Method Description	Default Detection Limit	Sample No
Actual Alcoholic Strength	Alcolyser. Analysis performed by Hill Laboratories - Wine & Beverage; Grovetown Park, SH 1, Blenheim.	0.1 % v/v	1-2
Total Sulphur Dioxide	Discrete analyser. Analysis performed at Hill Laboratories - Wine & Beverage; Grovetown Park, SH 1, Blenheim.	10 mg/L	1-2

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

Testing was completed between 18-Apr-2024 and 19-Apr-2024. 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.

Laura Bradbury BSc (Hons)
Senior Laboratory Technician - Blenheim

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Certificate of Analysis

Client:	Vintech Pacific Limited	**Lab No:**	3548403 SPv1
Contact:	Brett Barnes	**Date Received:**	18-Apr-2024
	C/- Vintech Pacific Limited	**Date Reported:**	02-May-2024
	PO Box 2160	**Quote No:**	130482
	Gisborne 4040	**Order No:**	
		Client Reference:	
		Submitted By:	Brett Barnes

Sample Type: Spirits

		Sample Name:	45% Alcohol Strength	47% Alcohol Strength
		Lab Number:	3548403.1	3548403.2
Antimony	mg/kg as rcvd		< 0.10	< 0.10
Arsenic	mg/kg as rcvd		< 0.10	< 0.10
Bismuth	mg/kg as rcvd		< 0.010	< 0.010
Cadmium	mg/kg as rcvd		< 0.004	< 0.004
Copper	mg/kg as rcvd		0.27	5.7
Lead	mg/kg as rcvd		< 0.02	< 0.02
Mercury	mg/kg as rcvd		< 0.010	< 0.010
Silver	mg/kg as rcvd		< 0.010	< 0.010
Tin	mg/kg as rcvd		< 0.10	< 0.10
Total Heavy Metals	mg/kg as rcvd		0.29	5.7
Ethylacetate	g/m³		260	110

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 Labs, 28 Duke Street, Frankton, Hamilton 3204.

Sample Type: Spirits

Test	Method Description	Default Detection Limit	Sample No
Biological Materials Digestion	Nitric and hydrochloric acid micro digestion, filtration. In-house based on APHA 3030.	-	1-2
Antimony	Biological materials digestion. Analysis by ICP-MS. In-house based on APHA 3125.	0.010 mg/kg as rcvd	1-2
Arsenic	Biological materials digestion. Analysis by ICP-MS. In-house based on APHA 3125.	0.010 mg/kg as rcvd	1-2
Bismuth	Biological materials digestion. Analysis by ICP-MS. In-house based on APHA 3125.	0.0010 mg/kg as rcvd	1-2
Cadmium	Biological materials digestion. Analysis by ICP-MS. In-house based on APHA 3125.	0.0004 mg/kg as rcvd	1-2
Copper	Biological materials digestion. Analysis by ICP-MS. In-house based on APHA 3125.	0.005 mg/kg as rcvd	1-2
Lead	Biological materials digestion. Analysis by ICP-MS. In-house based on APHA 3125.	0.002 mg/kg as rcvd	1-2
Mercury	Biological materials digestion. Analysis by ICP-MS. In-house based on APHA 3125.	0.0010 mg/kg as rcvd	1-2
Silver	Biological materials digestion. Analysis by ICP-MS. In-house based on APHA 3125.	0.0010 mg/kg as rcvd	1-2
Tin	Biological materials digestion. Analysis by ICP-MS. In-house based on APHA 3125.	0.010 mg/kg as rcvd	1-2
Total Heavy Metals	Calculation: sum of individual metals (antimony, arsenic, bismuth, cadmium, copper, lead, mercury, silver, tin). Heavy Metals Test (as lead sulfide), Food Chemicals Codex 4th Edition, 1996 (modified - ICP-MS analysis).	0.10 mg/kg as rcvd	1-2
Ethylacetate	GC-FID/FID analysis. In-house method.	50 g/m³	1-2

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

Testing was completed between 29-Apr-2024 and 02-May-2024. 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.

Mark Bryant NZCS (Chemistry)
Senior Technologist - Food & Bioanalytical

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Certificate of Analysis

Client:	Vintech Pacific Limited	**Lab No:**	3551845	POPv1
Contact:	Brett Barnes	**Date Received:**	20-Apr-2024	
	C/- Vintech Pacific Limited	**Date Reported:**	01-May-2024	
	PO Box 2160	**Quote No:**	130482	
	Gisborne 4040	**Order No:**		
		Client Reference:		
		Submitted By:	Brett Barnes	

Sample Type: Spirits

Sample Name:	45% Alcohol Testing	47% Alcohol Testing
Lab Number:	3551845.1	3551845.2
Multiresidue Analysis 1 - Type B Liquid Samples		
Analytes Detected:	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 Labs, 28 Duke Street, Frankton, Hamilton 3204.

Sample Type: Spirits

Test	Method Description	Default Detection Limit	Sample No
Multiresidue Analysis 1 - Type B Liquid Samples	Solvent extraction, SPE cleanup, dilution. Analysis by GC-MS/MS and LC-MS/MS. In-house (using a Citrate buffered QuEChERS extraction).	0.005 - 0.02 mg/L	1-2

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

Testing was completed on 01-May-2024. 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.

Helen McGowan BSc (Tech)
Operations Support - Food & Bioanalytical

Detection Limits

Analytes	Detection Limit
Multiresidue Analysis 1 - Type B Liquid Samples	
Acephate	0.010 mg/L
Acetochlor	0.010 mg/L
Acibenzolar-S-methyl	0.010 mg/L
Acrinathrin	0.010 mg/L
Alachlor	0.010 mg/L
Aldrin	0.005 mg/L
Anthraquinone	0.010 mg/L
Atrazine	0.010 mg/L
Atrazine-desethyl	0.010 mg/L
Atrazine-desisopropyl	0.010 mg/L
Azaconazole	0.010 mg/L
Azinphos-methyl	0.010 mg/L
Azoxystrobin	0.010 mg/L
Benalaxyl	0.010 mg/L
Bendiocarb	0.010 mg/L
Benodanil	0.010 mg/L
Benoxacor	0.010 mg/L
alpha-BHC	0.005 mg/L
beta-BHC	0.005 mg/L
gamma-BHC (Lindane)	0.005 mg/L
delta-BHC	0.005 mg/L
Bifenox	0.010 mg/L
Bifenthrin	0.010 mg/L
Bitertanol	0.010 mg/L
Bromacil	0.010 mg/L
Bromophos-ethyl	0.010 mg/L
Bromopropylate	0.010 mg/L
Bupirimate	0.010 mg/L
Buprofezin	0.010 mg/L
Butachlor	0.010 mg/L
Butamifos	0.010 mg/L
Cadusafos	0.010 mg/L
Captafol	0.010 mg/L
Captan	0.010 mg/L
Carbaryl	0.010 mg/L
Carbofenothion	0.010 mg/L
Carbofuran	0.010 mg/L
Carboxin	0.010 mg/L
cis-Chlordane	0.005 mg/L
trans-Chlordane	0.005 mg/L
Chlorfenapyr	0.010 mg/L
Chlorfenvinphos	0.010 mg/L
Chlorfluazuron	0.010 mg/L
Chlorobenzilate	0.010 mg/L
Chlorothalonil	0.010 mg/L
Chlorpropham	0.010 mg/L
Chlorpyrifos	0.010 mg/L
Chlorpyrifos-methyl	0.010 mg/L
Chlorthal-dimethyl	0.010 mg/L
Chlortoluron	0.010 mg/L
Chlozolinate	0.010 mg/L
Clomazone	0.010 mg/L
Coumaphos	0.010 mg/L
Cyanazine	0.010 mg/L
Cyanophos	0.010 mg/L
Cyfluthrin	0.010 mg/L
Cyhalothrin	0.010 mg/L
Cypermethrin	0.010 mg/L
Cyproconazole	0.010 mg/L
Cyprodinil	0.010 mg/L
2,4'-DDD	0.005 mg/L
4,4'-DDD	0.005 mg/L
2,4'-DDE	0.005 mg/L
4,4'-DDE	0.005 mg/L
2,4'-DDT	0.005 mg/L
4,4'-DDT	0.005 mg/L
Deltamethrin (including Tralomethrin)	0.010 mg/L
Demeton-S-methyl	0.010 mg/L
Diazinon	0.010 mg/L
Dichlobenil	0.010 mg/L
Dichlofenthion	0.010 mg/L
Dichlofluanid	0.010 mg/L
Dichloran	0.010 mg/L
Dichlorvos	0.010 mg/L
Dicofol	0.010 mg/L
Dicrotophos	0.010 mg/L
Dieldrin	0.005 mg/L
Difenoconazole	0.010 mg/L
Diflufenican	0.010 mg/L
Dimethenamid	0.010 mg/L
Dimethoate	0.010 mg/L
Dimethomorph	0.010 mg/L
Dimethylvinphos	0.010 mg/L
Dioxabenzofos	0.010 mg/L
Diphenylamine	0.010 mg/L
Disulfoton	0.010 mg/L
Diuron	0.010 mg/L
Edifenphos	0.010 mg/L
Endosulfan I	0.005 mg/L
Endosulfan II	0.005 mg/L
Endosulfan sulfate	0.005 mg/L
Endrin	0.005 mg/L
Endrin ketone	0.005 mg/L
EPN	0.010 mg/L
Epoxiconazole	0.010 mg/L
EPTC	0.010 mg/L
Esprocarb	0.010 mg/L
Ethion	0.010 mg/L
Ethoprophos	0.010 mg/L
Etoxazole	0.010 mg/L
Etridiazole	0.02 mg/L
Etrimfos	0.010 mg/L
Famphur	0.010 mg/L
Fenamiphos	0.010 mg/L
Fenarimol	0.010 mg/L
Fenchlorphos	0.010 mg/L
Fenitrothion	0.010 mg/L
Fenobucarb	0.010 mg/L
Fenoxaprop-ethyl	0.010 mg/L
Fenpiclonil	0.010 mg/L
Fenpropathrin	0.010 mg/L
Fenpropimorph	0.010 mg/L
Fensulfothion	0.010 mg/L
Fenthion	0.010 mg/L
Fenvalerate (including Esfenvalerate)	0.010 mg/L
Fluazifop-butyl	0.010 mg/L
Flucythrinate	0.010 mg/L
Fludioxonil	0.010 mg/L
Fluometuron	0.010 mg/L
Flusilazole	0.010 mg/L
Flutriafol	0.010 mg/L
Fluvalinate	0.010 mg/L
Folpet	0.010 mg/L
Fonofos	0.010 mg/L
Furalaxyl	0.010 mg/L
Furathiocarb	0.010 mg/L
Halfenprox	0.010 mg/L
Haloxyfop-etotyl	0.010 mg/L
Haloxyfop-methyl	0.010 mg/L
Heptachlor	0.005 mg/L
Heptachlor epoxide	0.005 mg/L
Heptachlor endo-epoxide	0.010 mg/L
Hexachlorobenzene	0.005 mg/L
Hexaconazole	0.010 mg/L
Hexazinone	0.010 mg/L
Hexythiazox	0.010 mg/L
Imazalil	0.010 mg/L
Indoxacarb	0.010 mg/L
Iodofenphos	0.010 mg/L
Iprobenfos	0.010 mg/L
Iprodione	0.010 mg/L
Isazophos	0.010 mg/L
Isofenphos	0.010 mg/L
Isofetamid	0.010 mg/L
Isoprocarb	0.010 mg/L
Kresoxim-methyl	0.010 mg/L
Leptophos	0.010 mg/L
Linuron	0.010 mg/L
Malathion	0.010 mg/L
Mepronil	0.010 mg/L
Metalaxyl (Mefenoxam)	0.010 mg/L
Methacrifos	0.010 mg/L
Methamidophos	0.010 mg/L
Methidathion	0.010 mg/L
Methiocarb	0.010 mg/L
Methoxychlor	0.005 mg/L
Metolachlor	0.010 mg/L
Metribuzin	0.010 mg/L
Mevinphos	0.010 mg/L
Molinate	0.02 mg/L
Monocrotophos	0.010 mg/L
Myclobutanil	0.010 mg/L
Naled	0.010 mg/L
Napropamide	0.010 mg/L
Nitrofen	0.010 mg/L
Nitrothal-isopropyl	0.010 mg/L
Norflurazon	0.010 mg/L
Omethoate	0.010 mg/L
Oxadiazon	0.010 mg/L
Oxadixyl	0.010 mg/L

Analytes	Detection Limit
Oxychlordane	0.005 mg/L
Oxyfluorfen	0.010 mg/L
Paclobutrazol	0.010 mg/L
Parathion-ethyl	0.010 mg/L
Parathion-methyl	0.010 mg/L
Penconazole	0.010 mg/L
Pendimethalin	0.010 mg/L
Permethrin	0.010 mg/L
Phenthoate	0.010 mg/L
Phorate	0.010 mg/L
Phosalone	0.010 mg/L
Phosmet	0.010 mg/L
Phosphamidon	0.010 mg/L
Piperonyl-butoxide	0.010 mg/L
Pirimicarb	0.010 mg/L
Pirimiphos-methyl	0.010 mg/L
Prochloraz	0.010 mg/L
Procymidone	0.010 mg/L
Profenofos	0.010 mg/L
Prometryn	0.010 mg/L
Propachlor	0.010 mg/L
Propanil	0.010 mg/L
Propaphos	0.010 mg/L
Propazine	0.010 mg/L
Propetamphos	0.010 mg/L
Propham	0.010 mg/L
Propiconazole	0.010 mg/L
Propoxur	0.010 mg/L
Propyzamide	0.010 mg/L
Prothiofos	0.010 mg/L
Pyraclofos	0.010 mg/L
Pyrazophos	0.010 mg/L
Pyrazoxyfen	0.010 mg/L
Pyrethrin	0.010 mg/L
Pyrifenox	0.010 mg/L
Pyrimethanil	0.010 mg/L
Pyriproxyfen	0.010 mg/L
Quinalphos	0.010 mg/L
Quintozene	0.010 mg/L
Quizalofop-ethyl	0.010 mg/L
Simazine	0.010 mg/L
Simetryn	0.010 mg/L
Sulfentrazone	0.010 mg/L
Sulfotep	0.010 mg/L
Tebuconazole	0.010 mg/L
Tebufenpyrad	0.010 mg/L
Tefluthrin	0.010 mg/L
Terbacil	0.010 mg/L
Terbufos	0.010 mg/L
Terbumeton	0.010 mg/L
Terbuthylazine	0.010 mg/L
Terbuthylazine-desethyl	0.010 mg/L
Terbutryn	0.010 mg/L
Tetrachlorvinphos	0.010 mg/L
Tetradifon	0.010 mg/L
Thenylchlor	0.010 mg/L
Thiobencarb	0.010 mg/L
Thiometon	0.010 mg/L
Tolclofos-methyl	0.010 mg/L

Analytes	Detection Limit
Tolylfluanid	0.010 mg/L
Transfluthrin	0.010 mg/L
Triadimefon	0.010 mg/L
Triallate	0.010 mg/L
Triazophos	0.010 mg/L
Trifloxystrobin	0.010 mg/L
Trifluralin	0.010 mg/L
Vinclozolin	0.010 mg/L