



CBC Iso GVL-TST666

Sample ID: G3F0271-01 Matrix: Hemp Extracts & Concentrates

Test ID: 5025243

Source ID:

Date Sampled: 06/16/23 Date Accepted: 06/16/23

Harvest/Prod. Date: 06.15.2023

GVB Oregon
info@gvbbiopharma.com

Results at a Glance

Total THC : <LOQ (0.6307%) %

Total CBD : <LOQ (0.1725%) %

CBC : 99.10 % PASS

Pesticides : PASS

Residual Solvent Analysis : PASS

Total Colonies : <LOQ cfu/g PASS

Metals : PASS



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Chief Science Officer - 6/19/2023



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info@gvbbiopharma.com

Potency Analysis by HPLC

Date/Time Extracted: 06/16/23 12:12

Analysis Method/SOP: 215

Batch Identification: 2324092

Cannabinoids	LOQ (%)	% by Wt.	mg/g	Cannabinoids Profile
Total THC	0.6307	< LOQ	< LOQ	
Total CBD	0.1725	< LOQ	< LOQ	
THCA	0.0020	< LOQ	< LOQ	
delta 9-THC	0.0020	< LOQ	< LOQ	
delta 8-THC	0.3736	< LOQ	< LOQ	
THCV	0.4207	< LOQ	< LOQ	
THCVA	0.1567	< LOQ	< LOQ	
CBD	0.0020	< LOQ	< LOQ	
CBDA	0.0020	< LOQ	< LOQ	
CBDV	0.4160	< LOQ	< LOQ	
CBDVA	0.1364	< LOQ	< LOQ	
CBN	0.2489	< LOQ	< LOQ	
CBG	0.0655	< LOQ	< LOQ	
CBGA	0.0655	< LOQ	< LOQ	
CBC	0.0746	99.10	991	99.1
Total Cannabinoids		99.10	991	

CBC 99.1
Total: 99.1

Total THC = delta 9-THC + (THCA * 0.877)

Total CBD = CBD + (CBDA * 0.877)

Total CBG = CBG + (CBGA * 0.878)

LOQ=Limit of Quantification, the lowest measurable concentration of an analyte.



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Pesticide Analysis by LCMSMS and GCMSMS

Date/Time Extracted: 06/16/23 14:47

Analysis Method/SOP: 202

Analyte	Result	Action Level	LOD	LOQ	Units	Notes	Analyte	Result	Action Level	LOD	LOQ	Units	Notes
Abamectin	< LOQ	0.5		0.1	ppm		Acephate	< LOQ	0.4		0.1	ppm	
Acequinocyl	< LOQ	2		0.5	ppm		Acetamidrid	< LOQ	0.2		0.1	ppm	
Aldicarb	< LOQ	0.4		0.1	ppm		Azoxystrobin	< LOQ	0.2		0.1	ppm	
Bifenazate	< LOQ	0.2		0.1	ppm		Bifenthrin	< LOQ	0.2		0.1	ppm	
Boscalid	< LOQ	0.4		0.1	ppm		Carbaryl	< LOQ	0.2		0.1	ppm	
Carbofuran	< LOQ	0.2		0.1	ppm		Chlorantraniliprole	< LOQ	0.2		0.1	ppm	
Chlorfenapyr	< LOQ	1		0.1	ppm		Chlorpyrifos	< LOQ	0.2		0.1	ppm	
Clofentezine	< LOQ	0.2		0.1	ppm		Cyfluthrin	< LOQ	1		0.5	ppm	
Cypermethrin	< LOQ	1		0.5	ppm		Daminozide	< LOQ	1		0.5	ppm	
DDVP (Dichlorvos)	< LOQ	1		0.1	ppm		Diazinon	< LOQ	0.2		0.1	ppm	
Dimethoate	< LOQ	0.2		0.1	ppm		Ethoprophos	< LOQ	0.2		0.1	ppm	
Etofenprox	< LOQ	0.4		0.1	ppm		Etoxazole	< LOQ	0.2		0.1	ppm	
Fenoxycarb	< LOQ	0.2		0.1	ppm		Fenpyroximate	< LOQ	0.4		0.1	ppm	
Fipronil	< LOQ	0.4		0.1	ppm		Fonicamid	< LOQ	1		0.1	ppm	
Fludioxonil	< LOQ	0.4		0.1	ppm		Hexythiazox	< LOQ	1		0.1	ppm	
Imazalil	< LOQ	0.2		0.1	ppm		Imidacloprid	< LOQ	0.4		0.1	ppm	
Kresoxim-methyl	< LOQ	0.4		0.1	ppm		Malathion	< LOQ	0.2		0.1	ppm	
Metalaxyl	< LOQ	0.2		0.1	ppm		Methiocarb	< LOQ	0.2		0.1	ppm	
Methomyl	< LOQ	0.4		0.1	ppm		Methyl parathion	< LOQ	0.2		0.1	ppm	
MGK-264	< LOQ	0.2		0.1	ppm		Myclobutanil	< LOQ	0.2		0.1	ppm	
Naled	< LOQ	0.5		0.1	ppm		Oxamyl	< LOQ	1		0.1	ppm	
Paclobutrazol	< LOQ	0.4		0.1	ppm		Permethrins	< LOQ	0.2		0.1	ppm	
Phosmet	< LOQ	0.2		0.1	ppm		Piperonyl butoxide	< LOQ	2		0.9	ppm	
Prallethrin	< LOQ	0.2		0.1	ppm		Propiconazole	< LOQ	0.4		0.1	ppm	
Propoxur	< LOQ	0.2		0.1	ppm		Pyrethrins	< LOQ	1		0.5	ppm	
Pyridaben	< LOQ	0.2		0.1	ppm		Spinosad	< LOQ	0.2		0.1	ppm	
Spiromesifen	< LOQ	0.2		0.1	ppm		Spirotetramat	< LOQ	0.2		0.1	ppm	
Spiroxamine	< LOQ	0.4		0.1	ppm		Tebuconazole	< LOQ	0.4		0.1	ppm	
Thiacloprid	< LOQ	0.2		0.1	ppm		Thiamethoxam	< LOQ	0.2		0.1	ppm	
Trifloxystrobin	< LOQ	0.2		0.1	ppm								

ND - Compound not detected

Results above the Action Level fail state testing requirements and will be highlighted Red.



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Harvest/Prod. Date: 06.15.2023

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Residual Solvents by GCMS-HS

Date/Time Extracted: 06/16/23 12:36

Analysis Method/SOP: 205

Analyte	Result	Action Level	LOD	LOQ	Units	Notes
1,4-Dioxane	< LOQ	380		50.00	ppm	
2-Butanol	< LOQ	5000		1000	ppm	
2-Ethoxyethanol	< LOQ	160		80.00	ppm	
2-Propanol (IPA)	< LOQ	5000		1000	ppm	
Acetone	< LOQ	5000		1000	ppm	
Acetonitrile	< LOQ	410		50.00	ppm	
Benzene	< LOQ	2		1.000	ppm	
Butanes	< LOQ	5000		1000	ppm	
Cumene	< LOQ	70		35.00	ppm	
Cyclohexane	< LOQ	3880		50.00	ppm	
Dichloromethane	< LOQ	600		50.00	ppm	
Ethyl acetate	< LOQ	5000		1000	ppm	
Ethyl benzene	< LOQ	2170		35.00	ppm	
Ethyl ether	< LOQ	5000		1000	ppm	
Ethylene glycol	< LOQ	620		310.0	ppm	
Ethylene oxide	< LOQ	50		25.00	ppm	
Heptane	< LOQ	5000		1000	ppm	
Hexanes	< LOQ	290		50.00	ppm	
Isopropyl acetate	< LOQ	5000		1000	ppm	
Methanol	< LOQ	3000		1000	ppm	
Pentanes	< LOQ	5000		1000	ppm	
Propane	< LOQ	5000		1000	ppm	
Tetrahydrofuran	< LOQ	720		50.00	ppm	
Toluene	< LOQ	890		50.00	ppm	
Xylenes	< LOQ	2170		50.00	ppm	

<LOQ - Results below the Limit of Quantitation

Results above the Action Level fail state testing requirements and will be highlighted Red.



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Harvest/Prod. Date: 06.15.2023

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Molds and Fungi Screen

Date/Time Extracted: 06/17/23 13:40

Analysis Method/SOP: 301

Total Colonies: < LOQ CFU/g

This is not a doctor's recommendation. A large majority of samples fall within the 1400-8500 range.
Microbial colony counting is not accredited to ORELAP TNI 2009 or ISO 17025:2017 Quality Standards.

Metals by ICPMS

Date/Time Extracted: 06/16/23 10:34

Analysis Method/SOP: Metals

Analyte	Result	Action Level	LOD	LOQ	Units
Arsenic	< LOQ	0.2	0.03	0.08	ug/g
Cadmium	< LOQ	0.2	0.02	0.08	ug/g
Lead	< LOQ	0.5	0.01	0.08	ug/g
Mercury	< LOQ	0.1	0.01	0.04	ug/g

<LOQ - Results below the Limit of Quantitation

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Quality Control Potency

Batch: 2324092 - 215-Concentrates

Blank(2324092-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
THCA	< LOQ	0.0005	%		06/16/23 12:12	06/16/23 22:30	
delta 9-THC	< LOQ	0.0005	%		06/16/23 12:12	06/16/23 22:30	
delta 8-THC	< LOQ	0.0934	%		06/16/23 12:12	06/16/23 22:30	
THCV	< LOQ	0.1052	%		06/16/23 12:12	06/16/23 22:30	
THCVA	< LOQ	0.0392	%		06/16/23 12:12	06/16/23 22:30	
CBD	< LOQ	0.0005	%		06/16/23 12:12	06/16/23 22:30	
CBDA	< LOQ	0.0005	%		06/16/23 12:12	06/16/23 22:30	
CBDV	< LOQ	0.1040	%		06/16/23 12:12	06/16/23 22:30	
CBDVA	< LOQ	0.0341	%		06/16/23 12:12	06/16/23 22:30	
CBN	< LOQ	0.0622	%		06/16/23 12:12	06/16/23 22:30	
CBG	< LOQ	0.0164	%		06/16/23 12:12	06/16/23 22:30	
CBGA	< LOQ	0.0164	%		06/16/23 12:12	06/16/23 22:30	
CBC	< LOQ	0.0186	%		06/16/23 12:12	06/16/23 22:30	

Reference(2324092-SRM1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
THCA	105	0.0002	%	90-110	06/16/23 12:12	06/16/23 22:52	
delta 9-THC	106	0.0002	%	90-110	06/16/23 12:12	06/16/23 22:52	
delta 8-THC	97.2	0.0463	%	90-110	06/16/23 12:12	06/16/23 22:52	
CBD	109	0.0002	%	90-110	06/16/23 12:12	06/16/23 22:52	
CBDA	92.6	0.0002	%	90-110	06/16/23 12:12	06/16/23 22:52	

Pesticide Analysis

Batch: 2324103 - 202

Blank(2324103-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Abamectin	< LOQ	0.1	ppm		06/16/23 14:47	06/18/23 07:26	
Acephate	< LOQ	0.1	ppm		06/16/23 14:47	06/18/23 07:26	
Acequinocyl	< LOQ	0.5	ppm		06/16/23 14:47	06/18/23 07:26	
Acetamiprid	< LOQ	0.1	ppm		06/16/23 14:47	06/18/23 07:26	
Aldicarb	< LOQ	0.1	ppm		06/16/23 14:47	06/18/23 07:26	
Azoxystrobin	< LOQ	0.1	ppm		06/16/23 14:47	06/18/23 07:26	
Bifenazate	< LOQ	0.1	ppm		06/16/23 14:47	06/18/23 07:26	
Bifenthrin	< LOQ	0.1	ppm		06/16/23 14:47	06/18/23 07:26	
Boscalid	< LOQ	0.1	ppm		06/16/23 14:47	06/17/23 22:30	
Carbaryl	< LOQ	0.1	ppm		06/16/23 14:47	06/18/23 07:26	
Carbofuran	< LOQ	0.1	ppm		06/16/23 14:47	06/18/23 07:26	
Chlorantraniliprole	< LOQ	0.1	ppm		06/16/23 14:47	06/18/23 07:26	
Chlorfenapyr	< LOQ	0.1	ppm		06/16/23 14:47	06/17/23 22:30	



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Quality Control Pesticide Analysis (Continued)

Batch: 2324103 - 202 (Continued)

Blank(2324103-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Chlorpyrifos	< LOQ	0.1	ppm		06/16/23 14:47	06/18/23 07:26	
Clofentezine	< LOQ	0.1	ppm		06/16/23 14:47	06/18/23 07:26	
Daminozide	< LOQ	0.5	ppm		06/16/23 14:47	06/18/23 07:26	
Cyfluthrin	< LOQ	0.5	ppm		06/16/23 14:47	06/17/23 22:30	
Diazinon	< LOQ	0.1	ppm		06/16/23 14:47	06/18/23 07:26	
Cypermethrin	< LOQ	0.5	ppm		06/16/23 14:47	06/17/23 22:30	
Dimethoate	< LOQ	0.1	ppm		06/16/23 14:47	06/18/23 07:26	
Ethoprophos	< LOQ	0.1	ppm		06/16/23 14:47	06/18/23 07:26	
Etofenprox	< LOQ	0.1	ppm		06/16/23 14:47	06/18/23 07:26	
Etoxazole	< LOQ	0.1	ppm		06/16/23 14:47	06/18/23 07:26	
Fenoxycarb	< LOQ	0.1	ppm		06/16/23 14:47	06/18/23 07:26	
Fenpyroximate	< LOQ	0.1	ppm		06/16/23 14:47	06/18/23 07:26	
Flonicamid	< LOQ	0.1	ppm		06/16/23 14:47	06/18/23 07:26	
Hexythiazox	< LOQ	0.1	ppm		06/16/23 14:47	06/18/23 07:26	
Imazalil	< LOQ	0.1	ppm		06/16/23 14:47	06/18/23 07:26	
Fipronil	< LOQ	0.1	ppm		06/16/23 14:47	06/17/23 22:30	
Imidacloprid	< LOQ	0.1	ppm		06/16/23 14:47	06/18/23 07:26	
Fludioxonil	< LOQ	0.1	ppm		06/16/23 14:47	06/17/23 22:30	
Metalaxyl	< LOQ	0.1	ppm		06/16/23 14:47	06/18/23 07:26	
Methiocarb	< LOQ	0.1	ppm		06/16/23 14:47	06/18/23 07:26	
Methomyl	< LOQ	0.1	ppm		06/16/23 14:47	06/18/23 07:26	
Myclobutanil	< LOQ	0.1	ppm		06/16/23 14:47	06/18/23 07:26	
Kresoxim-methyl	< LOQ	0.1	ppm		06/16/23 14:47	06/17/23 22:30	
Naled	< LOQ	0.1	ppm		06/16/23 14:47	06/18/23 07:26	
Malathion	< LOQ	0.1	ppm		06/16/23 14:47	06/17/23 22:30	
Oxamyl	< LOQ	0.1	ppm		06/16/23 14:47	06/18/23 07:26	
Paclobutrazol	< LOQ	0.1	ppm		06/16/23 14:47	06/18/23 07:26	
Permethrins	< LOQ	0.1	ppm		06/16/23 14:47	06/18/23 07:26	
Methyl parathion	< LOQ	0.1	ppm		06/16/23 14:47	06/17/23 22:30	
MGK-264	< LOQ	0.1	ppm		06/16/23 14:47	06/17/23 22:30	
Phosmet	< LOQ	0.1	ppm		06/16/23 14:47	06/18/23 07:26	
Piperonyl butoxide	< LOQ	0.9	ppm		06/16/23 14:47	06/18/23 07:26	
Prallethrin	< LOQ	0.1	ppm		06/16/23 14:47	06/18/23 07:26	
Propoxur	< LOQ	0.1	ppm		06/16/23 14:47	06/18/23 07:26	
Pyrethrins	< LOQ	0.5	ppm		06/16/23 14:47	06/18/23 07:26	
Pyridaben	< LOQ	0.1	ppm		06/16/23 14:47	06/18/23 07:26	
Propiconazole	< LOQ	0.1	ppm		06/16/23 14:47	06/17/23 22:30	
Spinosad	< LOQ	0.1	ppm		06/16/23 14:47	06/18/23 07:26	



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Quality Control Pesticide Analysis (Continued)

Batch: 2324103 - 202 (Continued)

Blank(2324103-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Spiromesifen	< LOQ	0.1	ppm		06/16/23 14:47	06/18/23 07:26	
Spirotetramat	< LOQ	0.1	ppm		06/16/23 14:47	06/18/23 07:26	
Spiroxamine	< LOQ	0.1	ppm		06/16/23 14:47	06/18/23 07:26	
Tebuconazole	< LOQ	0.1	ppm		06/16/23 14:47	06/18/23 07:26	
Thiacloprid	< LOQ	0.1	ppm		06/16/23 14:47	06/18/23 07:26	
Thiamethoxam	< LOQ	0.1	ppm		06/16/23 14:47	06/18/23 07:26	
Trifloxystrobin	< LOQ	0.1	ppm		06/16/23 14:47	06/18/23 07:26	
DDVP (Dichlorvos)	< LOQ	0.1	ppm		06/16/23 14:47	06/18/23 07:26	

LCS(2324103-BS1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Abamectin	82.7	0.1	ppm	50-150	06/16/23 14:47	06/18/23 07:49	
Acephate	106	0.1	ppm	60-120	06/16/23 14:47	06/18/23 07:49	
Acequinocyl	94.0	0.5	ppm	40-160	06/16/23 14:47	06/18/23 07:49	
Acetamiprid	104	0.1	ppm	60-120	06/16/23 14:47	06/18/23 07:49	
Aldicarb	94.8	0.1	ppm	60-120	06/16/23 14:47	06/18/23 07:49	
Azoxystrobin	101	0.1	ppm	60-120	06/16/23 14:47	06/18/23 07:49	
Bifenazate	98.9	0.1	ppm	60-120	06/16/23 14:47	06/18/23 07:49	
Bifenthrin	89.7	0.1	ppm	50-150	06/16/23 14:47	06/18/23 07:49	
Boscalid	68.5	0.1	ppm	60-120	06/16/23 14:47	06/17/23 22:52	
Carbaryl	107	0.1	ppm	60-120	06/16/23 14:47	06/18/23 07:49	
Carbofuran	105	0.1	ppm	60-120	06/16/23 14:47	06/18/23 07:49	
Chlorantraniliprole	104	0.1	ppm	60-120	06/16/23 14:47	06/18/23 07:49	
Chlorfenapyr	90.5	0.1	ppm	60-120	06/16/23 14:47	06/17/23 22:52	
Chlorpyrifos	91.7	0.1	ppm	60-120	06/16/23 14:47	06/18/23 07:49	
Clofentezine	121	0.1	ppm	60-120	06/16/23 14:47	06/18/23 07:49	
Cypermethrin	72.6	0.5	ppm	50-150	06/16/23 14:47	06/18/23 07:49	
Daminozide	110	0.5	ppm	60-120	06/16/23 14:47	06/18/23 07:49	
Cyfluthrin	110	0.5	ppm	50-150	06/16/23 14:47	06/17/23 22:52	
Diazinon	98.7	0.1	ppm	60-120	06/16/23 14:47	06/18/23 07:49	
Cypermethrin	93.8	0.5	ppm	50-150	06/16/23 14:47	06/17/23 22:52	
Dimethoate	99.3	0.1	ppm	60-120	06/16/23 14:47	06/18/23 07:49	
Ethoprophos	99.9	0.1	ppm	60-120	06/16/23 14:47	06/18/23 07:49	
Etofenprox	100	0.1	ppm	50-150	06/16/23 14:47	06/18/23 07:49	
Etoxazole	100	0.1	ppm	60-120	06/16/23 14:47	06/18/23 07:49	
Fenoxycarb	107	0.1	ppm	60-120	06/16/23 14:47	06/18/23 07:49	
Fenpyroximate	103	0.1	ppm	60-120	06/16/23 14:47	06/18/23 07:49	
Fonicamid	125	0.1	ppm	60-120	06/16/23 14:47	06/18/23 07:49	
Hexythiazox	95.9	0.1	ppm	60-120	06/16/23 14:47	06/18/23 07:49	



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Quality Control Pesticide Analysis (Continued)

Batch: 2324103 - 202 (Continued)

LCS(2324103-BS1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Imazalil	98.4	0.1	ppm	60-120	06/16/23 14:47	06/18/23 07:49	
Fipronil	85.0	0.1	ppm	60-120	06/16/23 14:47	06/17/23 22:52	
Imidacloprid	127	0.1	ppm	60-120	06/16/23 14:47	06/18/23 07:49	
Fludioxonil	87.1	0.1	ppm	50-150	06/16/23 14:47	06/17/23 22:52	
Metalaxyl	100	0.1	ppm	60-120	06/16/23 14:47	06/18/23 07:49	
Methiocarb	117	0.1	ppm	60-120	06/16/23 14:47	06/18/23 07:49	
Methomyl	112	0.1	ppm	60-120	06/16/23 14:47	06/18/23 07:49	
Myclobutanil	105	0.1	ppm	60-120	06/16/23 14:47	06/18/23 07:49	
Kresoxim-methyl	107	0.1	ppm	60-120	06/16/23 14:47	06/17/23 22:52	
Naled	97.2	0.1	ppm	50-150	06/16/23 14:47	06/18/23 07:49	
Malathion	89.5	0.1	ppm	60-120	06/16/23 14:47	06/17/23 22:52	
Oxamyl	102	0.1	ppm	60-120	06/16/23 14:47	06/18/23 07:49	
Paclobutrazol	115	0.1	ppm	60-120	06/16/23 14:47	06/18/23 07:49	
Permethrins	105	0.1	ppm	50-150	06/16/23 14:47	06/18/23 07:49	
Methyl parathion	78.2	0.1	ppm	50-150	06/16/23 14:47	06/17/23 22:52	
MGK-264	99.5	0.1	ppm	50-150	06/16/23 14:47	06/17/23 22:52	
Phosmet	109	0.1	ppm	50-150	06/16/23 14:47	06/18/23 07:49	
Piperonyl butoxide	123	0.9	ppm	60-120	06/16/23 14:47	06/18/23 07:49	
Prallethrin	103	0.1	ppm	60-120	06/16/23 14:47	06/18/23 07:49	
Propoxur	107	0.1	ppm	60-120	06/16/23 14:47	06/18/23 07:49	
Pyrethrins	90.6	0.5	ppm	60-120	06/16/23 14:47	06/18/23 07:49	
Pyridaben	104	0.1	ppm	50-150	06/16/23 14:47	06/18/23 07:49	
Propiconazole	91.7	0.1	ppm	60-120	06/16/23 14:47	06/17/23 22:52	
Spinosad	91.0	0.1	ppm	50-150	06/16/23 14:47	06/18/23 07:49	
Spiromesifen	93.6	0.1	ppm	60-120	06/16/23 14:47	06/18/23 07:49	
Spirotetramat	107	0.1	ppm	60-120	06/16/23 14:47	06/18/23 07:49	
Spiroxamine	93.0	0.1	ppm	60-120	06/16/23 14:47	06/18/23 07:49	
Tebuconazole	96.4	0.1	ppm	60-120	06/16/23 14:47	06/18/23 07:49	
Thiacloprid	108	0.1	ppm	60-120	06/16/23 14:47	06/18/23 07:49	
Thiamethoxam	111	0.1	ppm	60-120	06/16/23 14:47	06/18/23 07:49	
Trifloxystrobin	101	0.1	ppm	60-120	06/16/23 14:47	06/18/23 07:49	
DDVP (Dichlorvos)	116	0.1	ppm	60-120	06/16/23 14:47	06/18/23 07:49	

Solvent Analysis

Batch: 2324096 - 205

Blank(2324096-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Acetone	< LOQ	1000	ppm		06/16/23 12:36	06/17/23 09:54	



Eric Wendt
Chief Science Officer - 6/19/2023



Quality Control Solvent Analysis (Continued)

Batch: 2324096 - 205 (Continued)

Blank(2324096-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Acetonitrile	< LOQ	50.00	ppm		06/16/23 12:36	06/17/23 09:54	
Benzene	< LOQ	1.000	ppm		06/16/23 12:36	06/17/23 09:54	
Butanes	< LOQ	1000	ppm		06/16/23 12:36	06/17/23 09:54	
2-Butanol	< LOQ	1000	ppm		06/16/23 12:36	06/17/23 09:54	
Cumene	< LOQ	35.00	ppm		06/16/23 12:36	06/17/23 09:54	
Cyclohexane	< LOQ	50.00	ppm		06/16/23 12:36	06/17/23 09:54	
Dichloromethane	< LOQ	50.00	ppm		06/16/23 12:36	06/17/23 09:54	
1,4-Dioxane	< LOQ	50.00	ppm		06/16/23 12:36	06/17/23 09:54	
2-Ethoxyethanol	< LOQ	80.00	ppm		06/16/23 12:36	06/17/23 09:54	
Ethyl acetate	< LOQ	1000	ppm		06/16/23 12:36	06/17/23 09:54	
Ethyl benzene	< LOQ	35.00	ppm		06/16/23 12:36	06/17/23 09:54	
Ethylene glycol	< LOQ	310.0	ppm		06/16/23 12:36	06/17/23 09:54	
Ethylene oxide	< LOQ	25.00	ppm		06/16/23 12:36	06/17/23 09:54	
Ethyl ether	< LOQ	1000	ppm		06/16/23 12:36	06/17/23 09:54	
Heptane	< LOQ	1000	ppm		06/16/23 12:36	06/17/23 09:54	
Hexanes	< LOQ	50.00	ppm		06/16/23 12:36	06/17/23 09:54	
Isopropyl acetate	< LOQ	1000	ppm		06/16/23 12:36	06/17/23 09:54	
Methanol	< LOQ	1000	ppm		06/16/23 12:36	06/17/23 09:54	
Pentanes	< LOQ	1000	ppm		06/16/23 12:36	06/17/23 09:54	
Propane	< LOQ	1000	ppm		06/16/23 12:36	06/17/23 09:54	
2-Propanol (IPA)	< LOQ	1000	ppm		06/16/23 12:36	06/17/23 09:54	
Tetrahydrofuran	< LOQ	50.00	ppm		06/16/23 12:36	06/17/23 09:54	
Toluene	< LOQ	50.00	ppm		06/16/23 12:36	06/17/23 09:54	
Xylenes	< LOQ	50.00	ppm		06/16/23 12:36	06/17/23 09:54	

LCS(2324096-BS1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Acetone	104	1000	ppm	60-120	06/16/23 12:36	06/16/23 17:02	
Acetonitrile	107	50.00	ppm	60-120	06/16/23 12:36	06/16/23 17:02	
Benzene	105	1.000	ppm	60-120	06/16/23 12:36	06/16/23 17:02	
Butanes	92.4	1000	ppm	60-120	06/16/23 12:36	06/16/23 17:02	
2-Butanol	104	1000	ppm	60-120	06/16/23 12:36	06/16/23 17:02	
Cumene	105	35.00	ppm	60-120	06/16/23 12:36	06/16/23 17:02	
Cyclohexane	102	50.00	ppm	60-120	06/16/23 12:36	06/16/23 17:02	
Dichloromethane	105	50.00	ppm	60-120	06/16/23 12:36	06/16/23 17:02	
1,4-Dioxane	105	50.00	ppm	60-120	06/16/23 12:36	06/16/23 17:02	
2-Ethoxyethanol	109	80.00	ppm	60-120	06/16/23 12:36	06/16/23 17:02	
Ethyl acetate	103	1000	ppm	60-120	06/16/23 12:36	06/16/23 17:02	
Ethyl benzene	106	35.00	ppm	60-120	06/16/23 12:36	06/16/23 17:02	



Eric Wendt
Chief Science Officer - 6/19/2023



Quality Control Solvent Analysis (Continued)

Batch: 2324096 - 205 (Continued)

LCS(2324096-BS1)									
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted		Analyzed		Notes
Ethylene glycol	130	310.0	ppm	60-120	06/16/23	12:36	06/16/23	17:02	BSH
Ethylene oxide	103	25.00	ppm	60-120	06/16/23	12:36	06/16/23	17:02	
Ethyl ether	104	1000	ppm	60-120	06/16/23	12:36	06/16/23	17:02	
Heptane	103	1000	ppm	60-120	06/16/23	12:36	06/16/23	17:02	
Hexanes	102	50.00	ppm	60-120	06/16/23	12:36	06/16/23	17:02	
Isopropyl acetate	105	1000	ppm	60-120	06/16/23	12:36	06/16/23	17:02	
Methanol	102	1000	ppm	60-120	06/16/23	12:36	06/16/23	17:02	
Pentanes	98.8	1000	ppm	60-120	06/16/23	12:36	06/16/23	17:02	
Propane	75.6	1000	ppm	60-120	06/16/23	12:36	06/16/23	17:02	
2-Propanol (IPA)	103	1000	ppm	60-120	06/16/23	12:36	06/16/23	17:02	
Tetrahydrofuran	104	50.00	ppm	60-120	06/16/23	12:36	06/16/23	17:02	
Toluene	105	50.00	ppm	60-120	06/16/23	12:36	06/16/23	17:02	

Metals

Batch: 2324084 - 217

Blank(2324084-BLK1)								
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted		Analyzed	Notes
Cadmium	< LOQ	0.08	ug/g		06/16/23	10:34	06/16/23	15:34
Lead	< LOQ	0.08	ug/g		06/16/23	10:34	06/16/23	15:34
Arsenic	< LOQ	0.08	ug/g		06/16/23	10:34	06/16/23	15:34
Mercury	< LOQ	0.04	ug/g		06/16/23	10:34	06/16/23	15:34

LCS(2324084-BS1)								
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted		Analyzed	Notes
Cadmium	99.2	0.08	ug/g	80-115	06/16/23	10:34	06/16/23	15:36
Lead	103	0.08	ug/g	80-115	06/16/23	10:34	06/16/23	15:36
Arsenic	98.8	0.08	ug/g	80-115	06/16/23	10:34	06/16/23	15:36
Mercury	97.6	0.04	ug/g	80-115	06/16/23	10:34	06/16/23	15:36

Batch: 2324118 - 301

Blank(2324118-BLK1)								
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted		Analyzed	Notes
Molds and Fungi	< LOQ	10.0	cfu/g		06/17/23	13:40	06/19/23	11:01



Eric Wendt
Chief Science Officer - 6/19/2023



Notes and Definitions

Regulatory Compliance samples were collected onsite at facility according to ORELAP-SOP-001 and ORELAP-SOP-002 and following Sampling Plan FN117. Quality Control samples were tested as received. Results do not include uncertainty of measurements. Available upon request.

- ATM Non-cannabis matrix related interference or suppression of Internal standard
- BLI Baseline Interference - Cannabinoid peak interference in chromatographic baseline affecting QC recovery .
- BLK Analyte detected in method blank, but not associated samples.
- BSH Blank Spike High - Blank Spike recovery above method limit. no detections in samples.
- BSL Blank Spike Low - Blank Spike recovery below lower method limit, analyte chromatography reviewed manually for all samples.
- CBD Interference due to co-elution
- CV1 CBD matrix interference on GC Pest chromatography
- CV2 CCV was above acceptance criteria, Non-detect samples are considered acceptable.
- INF CCV was below acceptance criteria, sample still exceeds regulatory limit.
- ISH One or more QC falls outside acceptance criteria. Data entered into LIMS for informational purposes only.
- ISL Internal Standard concentration is above acceptance criteria.
- MSH Internal Standard concentration is below acceptance criteria.
- MSI Matrix Spike High - Matrix Spike recovery above method limits.
- MSL Matrix Spike Interference - Matrix spike source sample contains analyte hit above calibration affecting recovery accuracy in Matrix Spike.
- TPP
- U Matrix Spike Low - Matrix Spike recovery below lower method limit, analyte chromatography reviewed manually for all samples.
Internal Standard concentration outside control limit due to matrix interference

SAMPLE COA



Eric Wendt
Chief Science Officer - 6/19/2023

These results relate only to the sample included on this report. The report may not be reproduced except in full, without the written permission of Green Leaf Lab.

This is for informational testing and is not compliance testing. Lab results apply to the sample as received.



12423 NE Whitaker Way
Portland, OR 97230
503-254-1794



Report Number: 23-007171/D002.R000
Report Date: 06/22/2023
ORELAP#: OR100028
Purchase Order:
Received: 06/16/23 12:28

Customer: GVB Oregon
Product identity: CBC Iso GVL-TST666
Client/Metric ID: .
Laboratory ID: 23-007171-0001

Summary

Microbiology:

Less than LOQ for all analytes.

SAMPLE COA



12423 NE Whitaker Way
 Portland, OR 97230
 503-254-1794



Report Number: 23-007171/D002.R000
Report Date: 06/22/2023
ORELAP#: OR100028
Purchase Order:
Received: 06/16/23 12:28

Customer: GVB Oregon
 United States of America (USA)

Product identity: CBC Iso GVL-TST666

Client/Metric ID: .

Sample Date:

Laboratory ID: 23-007171-0001

Evidence of Cooling: No

Temp: 27.3 °C

Relinquished by: client

Sample Results

Microbiology							
Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status Notes
E.coli	< LOQ		cfu/g	10	2308312	06/19/23 AOAC 991.14 (Petrifilm) ^P	
Total Coliforms	< LOQ		cfu/g	10	2308312	06/19/23 AOAC 991.14 (Petrifilm) ^P	
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2308313	06/19/23 AOAC 2014.05 (RAPID) ^P	
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2308313	06/19/23 AOAC 2014.05 (RAPID) ^P	

SAMPLE COA



12423 NE Whitaker Way
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Report Number: 23-007171/D002.R000
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Abbreviations

Limits: Action Levels per OAR-333-007-0400, OAR-333-007-0210, OAR-333-007-0220, CCR title 16-division 42. BCC-section 5723

Limit(s) of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

^p = ISO/IEC 17025:2017 accredited method.

Units of Measure

cfu/g = Colony forming units per gram

% wt = µg/g divided by 10,000

Approved Signatory

Derrick Tanner
General Manager



12423 NE Whitaker Way
Portland, OR 97230
503-254-1794



Report Number: 23-007171/D002.R000
Report Date: 06/22/2023
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SAMPLE COA



Explanation of QC Flag Comments:

Code	Explanation
Q	Matrix interferences affecting spike or surrogate recoveries.
Q1	Quality control result biased high. Only non-detect samples reported.
Q2	Quality control outside QC limits. Data considered estimate.
Q3	Sample concentration greater than four times the amount spiked.
Q4	Non-homogenous sample matrix, affecting RPD result and/or % recoveries.
Q5	Spike results above calibration curve.
Q6	Quality control outside QC limits. Data acceptable based on remaining QC.
R	Relative percent difference (RPD) outside control limit.
R1	RPD non-calculable, as sample or duplicate results are less than five times the LOQ.
R2	Sample replicates RPD non-calculable, as only one replicate is within the analytical range.
LOQ1	Quantitation level raised due to low sample volume and/or dilution.
LOQ2	Quantitation level raised due to matrix interference.
B	Analyte detected in method blank, but not in associated samples.
B1	The sample concentration is greater than 5 times the blank concentration.
B2	The sample concentration is less than 5 times the blank concentration.

SAMPLE COA