



CBN Iso GVL-TST699

Sample ID: G3G0343-02 Matrix: Hemp Extracts & Concentrates

Test ID: 5024121

Source ID:

Date Sampled: 07/26/23 Date Accepted: 07/26/23

Harvest/Prod. Date: 07.25.2023

GVB Oregon
info@gvbbiopharma.com

Results at a Glance

Total THC : <LOQ (0.1577%) %

Total CBD : <LOQ (0.0431%) %

CBN : 99.00 % PASS

Pesticides : PASS

Residual Solvent Analysis : PASS

Total Colonies : <LOQ cfu/g PASS

Metals : PASS



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Eric Wendt
Chief Science Officer - 7/29/2023



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Potency Analysis by HPLC

Date/Time Extracted: 07/27/23 10:09

Analysis Method/SOP: 215

Batch Identification: 2330046

Cannabinoids	LOQ (%)	% by Wt.	mg/g	Cannabinoids Profile
Total THC	0.1577	< LOQ	< LOQ	
Total CBD	0.0431	< LOQ	< LOQ	
THCA	0.0005	< LOQ	< LOQ	
delta 9-THC	0.0005	< LOQ	< LOQ	
delta 8-THC	0.0934	< LOQ	< LOQ	
THCV	0.1052	< LOQ	< LOQ	
THCVA	0.0392	< LOQ	< LOQ	
CBD	0.0005	< LOQ	< LOQ	
CBDA	0.0005	< LOQ	< LOQ	
CBDV	0.1040	< LOQ	< LOQ	
CBDVA	0.0341	< LOQ	< LOQ	
CBN	0.0622	99.00	990	<p>■ CBN 99.0 Total: 99.0</p>
CBG	0.0164	< LOQ	< LOQ	
CBGA	0.0164	< LOQ	< LOQ	
CBC	0.0186	< LOQ	< LOQ	
Total Cannabinoids		99.00	990	

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: 07/27/23 10:00

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		Fenprophymate	< 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: 07.25.2023

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Residual Solvents by GCMS-HS

Date/Time Extracted: 07/27/23 10:08

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	
Ethanol	< LOQ			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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Molds and Fungi Screen

Date/Time Extracted: 07/27/23 12:49

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: 07/28/23 09:42

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

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



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Quality Control Potency

Batch: 2330046 - 215-Concentrates

Blank(2330046-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
THCA	< LOQ	0.0005	%		07/27/23 10:09	07/27/23 15:56	
delta 9-THC	< LOQ	0.0005	%		07/27/23 10:09	07/27/23 15:56	
delta 8-THC	< LOQ	0.0934	%		07/27/23 10:09	07/27/23 15:56	
THCV	< LOQ	0.1052	%		07/27/23 10:09	07/27/23 15:56	
THCVA	< LOQ	0.0392	%		07/27/23 10:09	07/27/23 15:56	
CBD	< LOQ	0.0005	%		07/27/23 10:09	07/27/23 15:56	
CBDA	< LOQ	0.0005	%		07/27/23 10:09	07/27/23 15:56	
CBDV	< LOQ	0.1040	%		07/27/23 10:09	07/27/23 15:56	
CBDVA	< LOQ	0.0341	%		07/27/23 10:09	07/27/23 15:56	
CBN	< LOQ	0.0622	%		07/27/23 10:09	07/27/23 15:56	
CBG	< LOQ	0.0164	%		07/27/23 10:09	07/27/23 15:56	
CBGA	< LOQ	0.0164	%		07/27/23 10:09	07/27/23 15:56	
CBC	< LOQ	0.0186	%		07/27/23 10:09	07/27/23 15:56	

Reference(2330046-SRM1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
THCA	106	0.0002	%	90-110	07/27/23 10:09	07/27/23 16:20	
delta 9-THC	106	0.0002	%	90-110	07/27/23 10:09	07/27/23 16:20	
delta 8-THC	95.5	0.0463	%	90-110	07/27/23 10:09	07/27/23 16:20	
CBD	101	0.0002	%	90-110	07/27/23 10:09	07/27/23 16:20	
CBDA	97.5	0.0002	%	90-110	07/27/23 10:09	07/27/23 16:20	

Pesticide Analysis

Batch: 2330044 - 202

Blank(2330044-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Abamectin	< LOQ	0.1	ppm		07/27/23 10:00	07/27/23 17:09	
Acephate	< LOQ	0.1	ppm		07/27/23 10:00	07/27/23 17:09	
Acequinocyl	< LOQ	0.5	ppm		07/27/23 10:00	07/27/23 17:09	
Acetamiprid	< LOQ	0.1	ppm		07/27/23 10:00	07/27/23 17:09	
Aldicarb	< LOQ	0.1	ppm		07/27/23 10:00	07/27/23 17:09	
Azoxystrobin	< LOQ	0.1	ppm		07/27/23 10:00	07/27/23 17:09	
Bifenazate	< LOQ	0.1	ppm		07/27/23 10:00	07/27/23 17:09	
Bifenthrin	< LOQ	0.1	ppm		07/27/23 10:00	07/27/23 17:09	
Boscalid	< LOQ	0.1	ppm		07/27/23 10:00	07/27/23 16:48	
Carbaryl	< LOQ	0.1	ppm		07/27/23 10:00	07/27/23 17:09	
Carbofuran	< LOQ	0.1	ppm		07/27/23 10:00	07/27/23 17:09	
Chlorantraniliprole	< LOQ	0.1	ppm		07/27/23 10:00	07/27/23 17:09	
Chlorfenapyr	< LOQ	0.1	ppm		07/27/23 10:00	07/27/23 16:48	



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Quality Control Pesticide Analysis (Continued)

Batch: 2330044 - 202 (Continued)

Blank(2330044-BLK1)								Notes
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed		
Chlorpyrifos	< LOQ	0.1	ppm		07/27/23 10:00	07/27/23 17:09		
Clofentezine	< LOQ	0.1	ppm		07/27/23 10:00	07/27/23 17:09		
Daminozide	< LOQ	0.5	ppm		07/27/23 10:00	07/27/23 17:09		
Cyfluthrin	< LOQ	0.5	ppm		07/27/23 10:00	07/27/23 16:48		
Diazinon	< LOQ	0.1	ppm		07/27/23 10:00	07/27/23 17:09		
Cypermethrin	< LOQ	0.5	ppm		07/27/23 10:00	07/27/23 16:48		
Dimethoate	< LOQ	0.1	ppm		07/27/23 10:00	07/27/23 17:09		
Ethoprophos	< LOQ	0.1	ppm		07/27/23 10:00	07/27/23 17:09		
Etofenprox	< LOQ	0.1	ppm		07/27/23 10:00	07/27/23 17:09		
Etoxazole	< LOQ	0.1	ppm		07/27/23 10:00	07/27/23 17:09		
Fenoxycarb	< LOQ	0.1	ppm		07/27/23 10:00	07/27/23 17:09		
Fenpyroximate	< LOQ	0.1	ppm		07/27/23 10:00	07/27/23 17:09		
Flonicamid	< LOQ	0.1	ppm		07/27/23 10:00	07/27/23 17:09		
Hexythiazox	< LOQ	0.1	ppm		07/27/23 10:00	07/27/23 17:09		
Imazalil	< LOQ	0.1	ppm		07/27/23 10:00	07/27/23 17:09		
Fipronil	< LOQ	0.1	ppm		07/27/23 10:00	07/27/23 16:48		
Imidacloprid	< LOQ	0.1	ppm		07/27/23 10:00	07/27/23 17:09		
Fludioxonil	< LOQ	0.1	ppm		07/27/23 10:00	07/27/23 16:48		
Metalaxyl	< LOQ	0.1	ppm		07/27/23 10:00	07/27/23 17:09		
Methiocarb	< LOQ	0.1	ppm		07/27/23 10:00	07/27/23 17:09		
Methomyl	< LOQ	0.1	ppm		07/27/23 10:00	07/27/23 17:09		
Myclobutanil	< LOQ	0.1	ppm		07/27/23 10:00	07/27/23 17:09		
Kresoxim-methyl	< LOQ	0.1	ppm		07/27/23 10:00	07/27/23 16:48		
Naled	< LOQ	0.1	ppm		07/27/23 10:00	07/27/23 17:09		
Malathion	< LOQ	0.1	ppm		07/27/23 10:00	07/27/23 16:48		
Oxamyl	< LOQ	0.1	ppm		07/27/23 10:00	07/27/23 17:09		
Paclobutrazol	< LOQ	0.1	ppm		07/27/23 10:00	07/27/23 17:09		
Permethrins	< LOQ	0.1	ppm		07/27/23 10:00	07/27/23 17:09		
Methyl parathion	< LOQ	0.1	ppm		07/27/23 10:00	07/27/23 16:48		
MGK-264	< LOQ	0.1	ppm		07/27/23 10:00	07/27/23 16:48		
Phosmet	< LOQ	0.1	ppm		07/27/23 10:00	07/27/23 17:09		
Piperonyl butoxide	< LOQ	0.9	ppm		07/27/23 10:00	07/27/23 17:09		
Prallethrin	< LOQ	0.1	ppm		07/27/23 10:00	07/27/23 17:09		
Propoxur	< LOQ	0.1	ppm		07/27/23 10:00	07/27/23 17:09		
Pyrethrins	< LOQ	0.5	ppm		07/27/23 10:00	07/27/23 17:09		
Pyridaben	< LOQ	0.1	ppm		07/27/23 10:00	07/27/23 17:09		
Propiconazole	< LOQ	0.1	ppm		07/27/23 10:00	07/27/23 16:48		
Spinosad	< LOQ	0.1	ppm		07/27/23 10:00	07/27/23 17:09		



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Quality Control Pesticide Analysis (Continued)

Batch: 2330044 - 202 (Continued)

Blank(2330044-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Spiromesifen	< LOQ	0.1	ppm		07/27/23 10:00	07/27/23 17:09	
Spirotetramat	< LOQ	0.1	ppm		07/27/23 10:00	07/27/23 17:09	
Spiroxamine	< LOQ	0.1	ppm		07/27/23 10:00	07/27/23 17:09	
Tebuconazole	< LOQ	0.1	ppm		07/27/23 10:00	07/27/23 17:09	
Thiacloprid	< LOQ	0.1	ppm		07/27/23 10:00	07/27/23 17:09	
Thiamethoxam	< LOQ	0.1	ppm		07/27/23 10:00	07/27/23 17:09	
Trifloxystrobin	< LOQ	0.1	ppm		07/27/23 10:00	07/27/23 17:09	
DDVP (Dichlorvos)	< LOQ	0.1	ppm		07/27/23 10:00	07/27/23 17:09	

LCS(2330044-BS1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Abamectin	79.6	0.1	ppm	50-150	07/27/23 10:00	07/27/23 17:32	
Acephate	105	0.1	ppm	60-120	07/27/23 10:00	07/27/23 17:32	
Acequinocyl	111	0.5	ppm	40-160	07/27/23 10:00	07/27/23 17:32	
Acetamiprid	114	0.1	ppm	60-120	07/27/23 10:00	07/27/23 17:32	
Aldicarb	113	0.1	ppm	60-120	07/27/23 10:00	07/27/23 17:32	
Azoxystrobin	121	0.1	ppm	60-120	07/27/23 10:00	07/27/23 17:32	BSH
Bifenazate	120	0.1	ppm	60-120	07/27/23 10:00	07/27/23 17:32	
Bifenthrin	109	0.1	ppm	50-150	07/27/23 10:00	07/27/23 17:32	
Boscalid	104	0.1	ppm	60-120	07/27/23 10:00	07/27/23 17:11	
Carbaryl	111	0.1	ppm	60-120	07/27/23 10:00	07/27/23 17:32	
Carbofuran	110	0.1	ppm	60-120	07/27/23 10:00	07/27/23 17:32	
Chlorantraniliprole	159	0.1	ppm	60-120	07/27/23 10:00	07/27/23 17:32	BSH
Chlorfenapyr	76.4	0.1	ppm	60-120	07/27/23 10:00	07/27/23 17:11	
Chlorpyrifos	108	0.1	ppm	60-120	07/27/23 10:00	07/27/23 17:32	
Clofentezine	106	0.1	ppm	60-120	07/27/23 10:00	07/27/23 17:32	
Daminozide	140	0.5	ppm	60-120	07/27/23 10:00	07/27/23 17:32	BSH
Cyfluthrin	85.4	0.5	ppm	50-150	07/27/23 10:00	07/27/23 17:11	
Diazinon	109	0.1	ppm	60-120	07/27/23 10:00	07/27/23 17:32	
Cypermethrin	76.3	0.5	ppm	50-150	07/27/23 10:00	07/27/23 17:11	
Dimethoate	115	0.1	ppm	60-120	07/27/23 10:00	07/27/23 17:32	
Ethoprophos	113	0.1	ppm	60-120	07/27/23 10:00	07/27/23 17:32	
Etofenprox	111	0.1	ppm	50-150	07/27/23 10:00	07/27/23 17:32	
Etoxazole	115	0.1	ppm	60-120	07/27/23 10:00	07/27/23 17:32	
Fenoxycarb	118	0.1	ppm	60-120	07/27/23 10:00	07/27/23 17:32	
Fenpyroximate	126	0.1	ppm	60-120	07/27/23 10:00	07/27/23 17:32	BSH
Flonicamid	116	0.1	ppm	60-120	07/27/23 10:00	07/27/23 17:32	
Hexythiazox	92.4	0.1	ppm	60-120	07/27/23 10:00	07/27/23 17:32	
Imazalil	109	0.1	ppm	60-120	07/27/23 10:00	07/27/23 17:32	



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Quality Control Pesticide Analysis (Continued)

Batch: 2330044 - 202 (Continued)

LCS(2330044-BS1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Fipronil	115	0.1	ppm	60-120	07/27/23 10:00	07/27/23 17:11	
Imidacloprid	126	0.1	ppm	60-120	07/27/23 10:00	07/27/23 17:32	BSH
Fludioxonil	104	0.1	ppm	50-150	07/27/23 10:00	07/27/23 17:11	
Metalaxyl	115	0.1	ppm	60-120	07/27/23 10:00	07/27/23 17:32	
Methiocarb	113	0.1	ppm	60-120	07/27/23 10:00	07/27/23 17:32	
Methomyl	113	0.1	ppm	60-120	07/27/23 10:00	07/27/23 17:32	
Myclobutanil	117	0.1	ppm	60-120	07/27/23 10:00	07/27/23 17:32	
Kresoxim-methyl	98.1	0.1	ppm	60-120	07/27/23 10:00	07/27/23 17:11	
Naled	114	0.1	ppm	50-150	07/27/23 10:00	07/27/23 17:32	
Malathion	116	0.1	ppm	60-120	07/27/23 10:00	07/27/23 17:11	
Oxamyl	114	0.1	ppm	60-120	07/27/23 10:00	07/27/23 17:32	
Paclobutrazol	111	0.1	ppm	60-120	07/27/23 10:00	07/27/23 17:32	
Permethrins	114	0.1	ppm	50-150	07/27/23 10:00	07/27/23 17:32	
Methyl parathion	88.5	0.1	ppm	50-150	07/27/23 10:00	07/27/23 17:11	
MGK-264	116	0.1	ppm	50-150	07/27/23 10:00	07/27/23 17:11	
Phosmet	115	0.1	ppm	50-150	07/27/23 10:00	07/27/23 17:32	
Piperonyl butoxide	161	0.9	ppm	60-120	07/27/23 10:00	07/27/23 17:32	BSH
Prallethrin	109	0.1	ppm	60-120	07/27/23 10:00	07/27/23 17:32	
Propoxur	109	0.1	ppm	60-120	07/27/23 10:00	07/27/23 17:32	
Pyrethrins	90.1	0.5	ppm	60-120	07/27/23 10:00	07/27/23 17:32	
Pyridaben	105	0.1	ppm	50-150	07/27/23 10:00	07/27/23 17:32	
Propiconazole	97.1	0.1	ppm	60-120	07/27/23 10:00	07/27/23 17:11	
Spinosad	100	0.1	ppm	50-150	07/27/23 10:00	07/27/23 17:32	
Spiromesifen	110	0.1	ppm	60-120	07/27/23 10:00	07/27/23 17:32	
Spirotetramat	122	0.1	ppm	60-120	07/27/23 10:00	07/27/23 17:32	BSH
Spiroxamine	102	0.1	ppm	60-120	07/27/23 10:00	07/27/23 17:32	
Tebuconazole	98.6	0.1	ppm	60-120	07/27/23 10:00	07/27/23 17:32	
Thiacloprid	116	0.1	ppm	60-120	07/27/23 10:00	07/27/23 17:32	
Thiamethoxam	120	0.1	ppm	60-120	07/27/23 10:00	07/27/23 17:32	
Trifloxystrobin	112	0.1	ppm	60-120	07/27/23 10:00	07/27/23 17:32	
DDVP (Dichlorvos)	101	0.1	ppm	60-120	07/27/23 10:00	07/27/23 17:32	

Solvent Analysis

Batch: 2330045 - 205

Blank(2330045-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Acetone	< LOQ	1000	ppm		07/27/23 10:08	07/28/23 10:32	
Acetonitrile	< LOQ	50.00	ppm		07/27/23 10:08	07/28/23 10:32	



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Eric Wendt
Chief Science Officer - 7/29/2023



Quality Control Solvent Analysis (Continued)

Batch: 2330045 - 205 (Continued)

Blank(2330045-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Benzene	< LOQ	1.000	ppm		07/27/23 10:08	07/28/23 10:32	
Butanes	< LOQ	1000	ppm		07/27/23 10:08	07/28/23 10:32	
2-Butanol	< LOQ	1000	ppm		07/27/23 10:08	07/28/23 10:32	
Cumene	< LOQ	35.00	ppm		07/27/23 10:08	07/28/23 10:32	
Cyclohexane	< LOQ	50.00	ppm		07/27/23 10:08	07/28/23 10:32	
Dichloromethane	< LOQ	50.00	ppm		07/27/23 10:08	07/28/23 10:32	
1,4-Dioxane	< LOQ	50.00	ppm		07/27/23 10:08	07/28/23 10:32	
Ethanol	< LOQ	50.00	ppm		07/27/23 10:08	07/28/23 10:32	
2-Ethoxyethanol	< LOQ	80.00	ppm		07/27/23 10:08	07/28/23 10:32	
Ethyl acetate	< LOQ	1000	ppm		07/27/23 10:08	07/28/23 10:32	
Ethyl benzene	< LOQ	35.00	ppm		07/27/23 10:08	07/28/23 10:32	
Ethylene glycol	< LOQ	310.0	ppm		07/27/23 10:08	07/28/23 10:32	
Ethylene oxide	< LOQ	25.00	ppm		07/27/23 10:08	07/28/23 10:32	
Ethyl ether	< LOQ	1000	ppm		07/27/23 10:08	07/28/23 10:32	
Heptane	< LOQ	1000	ppm		07/27/23 10:08	07/28/23 10:32	
Hexanes	< LOQ	50.00	ppm		07/27/23 10:08	07/28/23 10:32	
Isopropyl acetate	< LOQ	1000	ppm		07/27/23 10:08	07/28/23 10:32	
Methanol	< LOQ	1000	ppm		07/27/23 10:08	07/28/23 10:32	
Pentanes	< LOQ	1000	ppm		07/27/23 10:08	07/28/23 10:32	
Propane	< LOQ	1000	ppm		07/27/23 10:08	07/28/23 10:32	
2-Propanol (IPA)	< LOQ	1000	ppm		07/27/23 10:08	07/28/23 10:32	
Tetrahydrofuran	< LOQ	50.00	ppm		07/27/23 10:08	07/28/23 10:32	
Toluene	< LOQ	50.00	ppm		07/27/23 10:08	07/28/23 10:32	
Xylenes	< LOQ	50.00	ppm		07/27/23 10:08	07/28/23 10:32	

LCS(2330045-BS1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Acetone	91.0	1000	ppm	60-120	07/27/23 10:08	07/27/23 18:48	
Acetonitrile	87.3	50.00	ppm	60-120	07/27/23 10:08	07/27/23 18:48	
Benzene	91.9	1.000	ppm	60-120	07/27/23 10:08	07/27/23 18:48	
Butanes	96.5	1000	ppm	60-120	07/27/23 10:08	07/27/23 18:48	
2-Butanol	88.9	1000	ppm	60-120	07/27/23 10:08	07/27/23 18:48	
Cumene	77.9	35.00	ppm	60-120	07/27/23 10:08	07/27/23 18:48	
Cyclohexane	94.1	50.00	ppm	60-120	07/27/23 10:08	07/27/23 18:48	
Dichloromethane	92.0	50.00	ppm	60-120	07/27/23 10:08	07/27/23 18:48	
1,4-Dioxane	84.8	50.00	ppm	60-120	07/27/23 10:08	07/27/23 18:48	
2-Ethoxyethanol	76.0	80.00	ppm	60-120	07/27/23 10:08	07/27/23 18:48	
Ethyl acetate	91.9	1000	ppm	60-120	07/27/23 10:08	07/27/23 18:48	
Ethyl benzene	80.6	35.00	ppm	60-120	07/27/23 10:08	07/27/23 18:48	



Eric Wendt
Chief Science Officer - 7/29/2023



Quality Control Solvent Analysis (Continued)

Batch: 2330045 - 205 (Continued)

LCS(2330045-BS1)										
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted		Analyzed		Notes	
Ethylene glycol	64.9	310.0	ppm	60-120	07/27/23	10:08	07/27/23	18:48	BSL	
Ethylene oxide	91.0	25.00	ppm	60-120	07/27/23	10:08	07/27/23	18:48		
Ethyl ether	92.5	1000	ppm	60-120	07/27/23	10:08	07/27/23	18:48		
Heptane	92.3	1000	ppm	60-120	07/27/23	10:08	07/27/23	18:48		
Hexanes	92.7	50.00	ppm	60-120	07/27/23	10:08	07/27/23	18:48		
Isopropyl acetate	90.3	1000	ppm	60-120	07/27/23	10:08	07/27/23	18:48		
Methanol	85.5	1000	ppm	60-120	07/27/23	10:08	07/27/23	18:48		
Pentanes	93.5	1000	ppm	60-120	07/27/23	10:08	07/27/23	18:48		
Propane	94.4	1000	ppm	60-120	07/27/23	10:08	07/27/23	18:48		
2-Propanol (IPA)	89.8	1000	ppm	60-120	07/27/23	10:08	07/27/23	18:48		
Tetrahydrofuran	90.2	50.00	ppm	60-120	07/27/23	10:08	07/27/23	18:48		
Toluene	88.5	50.00	ppm	60-120	07/27/23	10:08	07/27/23	18:48		

Metals

Batch: 2330055 - 217

Blank(2330055-BLK1)								
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted		Analyzed	Notes
Cadmium	< LOQ	0.08	ug/g		07/28/23	09:42	07/28/23	16:03
Lead	< LOQ	0.08	ug/g		07/28/23	09:42	07/28/23	16:03
Arsenic	< LOQ	0.08	ug/g		07/28/23	09:42	07/28/23	16:03
Mercury	< LOQ	0.04	ug/g		07/28/23	09:42	07/28/23	16:03

LCS(2330055-BS1)								
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted		Analyzed	Notes
Cadmium	99.8	0.08	ug/g	80-115	07/28/23	09:42	07/28/23	16:04
Lead	102	0.08	ug/g	80-115	07/28/23	09:42	07/28/23	16:04
Arsenic	96.5	0.08	ug/g	80-115	07/28/23	09:42	07/28/23	16:04
Mercury	104	0.04	ug/g	80-115	07/28/23	09:42	07/28/23	16:04

Batch: 2330058 - 301

Blank(2330058-BLK1)								
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted		Analyzed	Notes
Molds and Fungi	< LOQ	10.0	cfu/g		07/27/23	12:49	07/29/23	09:20

Blank(2330058-BLK2)								
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted		Analyzed	Notes
Molds and Fungi	< LOQ	10.0	cfu/g		07/27/23	12:49	07/29/23	09:20



Eric Wendt
Chief Science Officer - 7/29/2023



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.
 - C Interference due to co-elution
 - CBD CBD matrix interference on GC Pest chromatography
 - CV1 CCV was above acceptance criteria, Non-detect samples are considered acceptable.
 - CV2 CCV was below acceptance criteria, sample still exceeds regulatory limit.
 - INF One or more QC falls outside acceptance criteria. Data entered into LIMS for informational purposes only.
 - ISH Internal Standard concentration is above acceptance criteria.
 - ISL Internal Standard concentration is below acceptance criteria.
 - MSH Matrix Spike High - Matrix Spike recovery above method limits.
 - MSI 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 - 7/29/2023

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: 23-008810/D003.R001
Report Date: 08/01/2023
ORELAP#: OR100028
Purchase Order:
Received: 07/26/23 12:32

This is an amended version of report# 23-008810/D003.R000.

Reason: Updated product identity.

Customer: GVB Oregon
Product identity: CBN Iso GVL-TST699
Client/Metric ID: .
Laboratory ID: 23-008810-0002

Summary

Microbiology:

Less than LOQ for all analytes.

SAMPLE COA



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



Report Number: 23-008810/D003.R001
Report Date: 08/01/2023
ORELAP#: OR100028
Purchase Order:
Received: 07/26/23 12:32

Customer: GVB Oregon
United States of America (USA)
Product identity: CBN Iso GVL-TST699
Client/Metric ID: .
Sample Date:
Laboratory ID: 23-008810-0002
Evidence of Cooling: No
Temp: 20.5 °C
Relinquished by: client

Sample Results

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2309458	07/29/23 AOAC 991.14 (Petrifilm) ^P		
Total Coliforms	< LOQ		cfu/g	10	2309458	07/29/23 AOAC 991.14 (Petrifilm) ^P		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2309459	07/29/23 AOAC 2014.05 (RAPID) ^P		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2309459	07/29/23 AOAC 2014.05 (RAPID) ^P		

SAMPLE COA



12423 NE Whitaker Way
Portland, OR 97230
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Report Number: 23-008810/D003.R001
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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: 23-008810/D003.R001
Report Date: 08/01/2023
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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