



### CBD Iso GVL-TST774

Sample ID: G4B0331-01 Matrix: Hemp Extracts & Concentrates

Test ID: 5026536

Source ID:

Date Sampled: 02/22/24 Date Accepted: 02/22/24

Harvest/Prod. Date: 02.20.2024

**GVB Oregon**  
info@gvbbiopharma.com

### Results at a Glance

Total THC : <LOQ (0.0005%) %

Total CBD : 99.91 %

Pesticides : PASS

Residual Solvent Analysis : PASS

Metals : PASS



Patrick Hermonson  
Quality Officer - 2/26/2024



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### Potency Analysis

Date/Time Extracted: 02/23/24 09:32

Analysis Method/SOP: 215

Batch Identification: 2408074

Cannabinoids	LOQ (%)	% by Wt.	mg/g	Cannabinoids Profile
Total THC	0.0005	< LOQ	< LOQ	<p>99.9</p>
Total CBD	0.0431	99.91	999.1	
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	99.91	999.1	
CBDA	0.0005	< LOQ	< LOQ	
CBDV	0.1040	< LOQ	< LOQ	
CBDVA	0.0341	< LOQ	< LOQ	
CBN	0.0622	< LOQ	< LOQ	
CBG	0.0164	< LOQ	< LOQ	
CBGA	0.0164	< LOQ	< LOQ	
CBC	0.0186	< LOQ	< LOQ	
<b>Total Cannabinoids</b>		99.91	999.1	

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.

THCA, delta 9-THC, delta 8-THC, CBDA and CBD are accredited by TNI 2016 and ISO 17025



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Quality Officer - 2/26/2024

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



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### Pesticide Analysis in ppm

Date/Time Extracted: 02/22/24 13:20

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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Quality Officer - 2/26/2024



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### Residual Solvents

Date/Time Extracted: 02/23/24 10:23

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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### Metals by ICPMS

Date/Time Extracted: 02/23/24 09:25

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**.



**ISO 17025**  
ACCREDITED  
LABORATORY

Patrick Hermonson  
Quality Officer - 2/26/2024



### Quality Control Potency

Batch: 2408074 - 215-Concentrates

Blank(2408074-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
THCA	< LOQ	0.0005	%		02/23/24 09:32	02/23/24 15:57	
delta 9-THC	< LOQ	0.0005	%		02/23/24 09:32	02/23/24 15:57	
delta 8-THC	< LOQ	0.0934	%		02/23/24 09:32	02/23/24 15:57	
THCV	< LOQ	0.1052	%		02/23/24 09:32	02/23/24 15:57	
THCVA	< LOQ	0.0392	%		02/23/24 09:32	02/23/24 15:57	
CBD	< LOQ	0.0005	%		02/23/24 09:32	02/23/24 15:57	
CBDA	< LOQ	0.0005	%		02/23/24 09:32	02/23/24 15:57	
CBDV	< LOQ	0.1040	%		02/23/24 09:32	02/23/24 15:57	
CBDVA	< LOQ	0.0341	%		02/23/24 09:32	02/23/24 15:57	
CBN	< LOQ	0.0622	%		02/23/24 09:32	02/23/24 15:57	
CBG	< LOQ	0.0164	%		02/23/24 09:32	02/23/24 15:57	
CBGA	< LOQ	0.0164	%		02/23/24 09:32	02/23/24 15:57	
CBC	< LOQ	0.0186	%		02/23/24 09:32	02/23/24 15:57	

Reference(2408074-SRM1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
THCA	96.0	0.0002	%	90-110	02/23/24 09:32	02/23/24 16:20	
delta 9-THC	93.1	0.0002	%	90-110	02/23/24 09:32	02/23/24 16:20	
delta 8-THC	91.1	0.0464	%	90-110	02/23/24 09:32	02/23/24 16:20	
CBD	100	0.0002	%	90-110	02/23/24 09:32	02/23/24 16:20	
CBDA	95.7	0.0002	%	90-110	02/23/24 09:32	02/23/24 16:20	

### Pesticide Analysis

Batch: 2408069 - 202

Blank(2408069-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Abamectin	< LOQ	0.1	ppm		02/22/24 13:20	02/23/24 19:22	
Acephate	< LOQ	0.1	ppm		02/22/24 13:20	02/23/24 19:22	
Acequinocyl	< LOQ	0.5	ppm		02/22/24 13:20	02/23/24 19:22	
Acetamiprid	< LOQ	0.1	ppm		02/22/24 13:20	02/23/24 19:22	
Aldicarb	< LOQ	0.1	ppm		02/22/24 13:20	02/23/24 19:22	
Azoxystrobin	< LOQ	0.1	ppm		02/22/24 13:20	02/23/24 19:22	
Bifenazate	< LOQ	0.1	ppm		02/22/24 13:20	02/23/24 19:22	
Bifenthrin	< LOQ	0.1	ppm		02/22/24 13:20	02/23/24 19:22	
Boscalid	< LOQ	0.1	ppm		02/22/24 13:20	02/23/24 15:01	
Carbaryl	< LOQ	0.1	ppm		02/22/24 13:20	02/23/24 19:22	
Carbofuran	< LOQ	0.1	ppm		02/22/24 13:20	02/23/24 19:22	
Chlorantraniliprole	< LOQ	0.1	ppm		02/22/24 13:20	02/23/24 19:22	
Chlorfenapyr	< LOQ	0.1	ppm		02/22/24 13:20	02/23/24 15:01	



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### Quality Control Pesticide Analysis (Continued)

Batch: 2408069 - 202 (Continued)

Blank(2408069-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Chlorpyrifos	< LOQ	0.1	ppm		02/22/24 13:20	02/23/24 19:22	
Clofentezine	< LOQ	0.1	ppm		02/22/24 13:20	02/23/24 19:22	
Daminozide	< LOQ	0.5	ppm		02/22/24 13:20	02/23/24 19:22	
Cyfluthrin	< LOQ	0.5	ppm		02/22/24 13:20	02/23/24 15:01	
Diazinon	< LOQ	0.1	ppm		02/22/24 13:20	02/23/24 19:22	
Cypermethrin	< LOQ	0.5	ppm		02/22/24 13:20	02/23/24 15:01	
Dimethoate	< LOQ	0.1	ppm		02/22/24 13:20	02/23/24 19:22	
Ethoprophos	< LOQ	0.1	ppm		02/22/24 13:20	02/23/24 19:22	
Etofenprox	< LOQ	0.1	ppm		02/22/24 13:20	02/23/24 19:22	
Etoxazole	< LOQ	0.1	ppm		02/22/24 13:20	02/23/24 19:22	
Fenoxycarb	< LOQ	0.1	ppm		02/22/24 13:20	02/23/24 19:22	
Fenpyroximate	< LOQ	0.1	ppm		02/22/24 13:20	02/23/24 19:22	
Fonicamid	< LOQ	0.1	ppm		02/22/24 13:20	02/23/24 19:22	
Hexythiazox	< LOQ	0.1	ppm		02/22/24 13:20	02/23/24 19:22	
Imazalil	< LOQ	0.1	ppm		02/22/24 13:20	02/23/24 19:22	
Fipronil	< LOQ	0.1	ppm		02/22/24 13:20	02/23/24 15:01	
Imidacloprid	< LOQ	0.1	ppm		02/22/24 13:20	02/23/24 19:22	
Fludioxonil	< LOQ	0.1	ppm		02/22/24 13:20	02/23/24 15:01	
Metalaxyl	< LOQ	0.1	ppm		02/22/24 13:20	02/23/24 19:22	
Methiocarb	< LOQ	0.1	ppm		02/22/24 13:20	02/23/24 19:22	
Methomyl	< LOQ	0.1	ppm		02/22/24 13:20	02/23/24 19:22	
Myclobutanil	< LOQ	0.1	ppm		02/22/24 13:20	02/23/24 19:22	
Kresoxim-methyl	< LOQ	0.1	ppm		02/22/24 13:20	02/23/24 15:01	
Naled	< LOQ	0.1	ppm		02/22/24 13:20	02/23/24 19:22	
Malathion	< LOQ	0.1	ppm		02/22/24 13:20	02/23/24 15:01	
Oxamyl	< LOQ	0.1	ppm		02/22/24 13:20	02/23/24 19:22	
Paclobutrazol	< LOQ	0.1	ppm		02/22/24 13:20	02/23/24 19:22	
Permethrins	< LOQ	0.1	ppm		02/22/24 13:20	02/23/24 19:22	
Methyl parathion	< LOQ	0.1	ppm		02/22/24 13:20	02/23/24 15:01	
MGK-264	< LOQ	0.1	ppm		02/22/24 13:20	02/23/24 15:01	
Phosmet	< LOQ	0.1	ppm		02/22/24 13:20	02/23/24 19:22	
Piperonyl butoxide	< LOQ	0.9	ppm		02/22/24 13:20	02/23/24 19:22	
Prallethrin	< LOQ	0.1	ppm		02/22/24 13:20	02/23/24 19:22	
Propoxur	< LOQ	0.1	ppm		02/22/24 13:20	02/23/24 19:22	
Pyrethrins	< LOQ	0.5	ppm		02/22/24 13:20	02/23/24 19:22	
Pyridaben	< LOQ	0.1	ppm		02/22/24 13:20	02/23/24 19:22	
Propiconazole	< LOQ	0.1	ppm		02/22/24 13:20	02/23/24 15:01	
Spinosad	< LOQ	0.1	ppm		02/22/24 13:20	02/23/24 19:22	



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### Quality Control Pesticide Analysis (Continued)

Batch: 2408069 - 202 (Continued)

Blank(2408069-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Spiromesifen	< LOQ	0.1	ppm		02/22/24 13:20	02/23/24 19:22	
Spirotetramat	< LOQ	0.1	ppm		02/22/24 13:20	02/23/24 19:22	
Spiroxamine	< LOQ	0.1	ppm		02/22/24 13:20	02/23/24 19:22	
Tebuconazole	< LOQ	0.1	ppm		02/22/24 13:20	02/23/24 19:22	
Thiacloprid	< LOQ	0.1	ppm		02/22/24 13:20	02/23/24 19:22	
Thiamethoxam	< LOQ	0.1	ppm		02/22/24 13:20	02/23/24 19:22	
Trifloxystrobin	< LOQ	0.1	ppm		02/22/24 13:20	02/23/24 19:22	
DDVP (Dichlorvos)	< LOQ	0.1	ppm		02/22/24 13:20	02/23/24 19:22	

LCS(2408069-BS1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Abamectin	118	0.1	ppm	50-150	02/22/24 13:20	02/23/24 19:48	
Acephate	101	0.1	ppm	60-120	02/22/24 13:20	02/23/24 19:48	
Acequinocyl	130	0.5	ppm	40-160	02/22/24 13:20	02/23/24 19:48	
Acetamiprid	114	0.1	ppm	60-120	02/22/24 13:20	02/23/24 19:48	
Aldicarb	191	0.1	ppm	60-120	02/22/24 13:20	02/23/24 19:48	BSH
Azoxystrobin	110	0.1	ppm	60-120	02/22/24 13:20	02/23/24 19:48	
Bifenazate	114	0.1	ppm	60-120	02/22/24 13:20	02/23/24 19:48	
Bifenthrin	112	0.1	ppm	50-150	02/22/24 13:20	02/23/24 19:48	
Boscalid	98.7	0.1	ppm	60-120	02/22/24 13:20	02/23/24 15:23	
Carbaryl	82.7	0.1	ppm	60-120	02/22/24 13:20	02/23/24 19:48	
Carbofuran	112	0.1	ppm	60-120	02/22/24 13:20	02/23/24 19:48	
Chlorantraniliprole	52.1	0.1	ppm	60-120	02/22/24 13:20	02/23/24 19:48	BSL
Chlorfenapyr	104	0.1	ppm	60-120	02/22/24 13:20	02/23/24 15:23	
Chlorpyrifos	101	0.1	ppm	60-120	02/22/24 13:20	02/23/24 19:48	
Clofentezine	101	0.1	ppm	60-120	02/22/24 13:20	02/23/24 19:48	
Daminozide	455	0.5	ppm	60-120	02/22/24 13:20	02/23/24 19:48	BSH
Cyfluthrin	87.1	0.5	ppm	50-150	02/22/24 13:20	02/23/24 15:23	
Diazinon	109	0.1	ppm	60-120	02/22/24 13:20	02/23/24 19:48	
Cypermethrin	88.9	0.5	ppm	50-150	02/22/24 13:20	02/23/24 15:23	
Dimethoate	116	0.1	ppm	60-120	02/22/24 13:20	02/23/24 19:48	
Ethoprophos	109	0.1	ppm	60-120	02/22/24 13:20	02/23/24 19:48	
Etofenprox	117	0.1	ppm	50-150	02/22/24 13:20	02/23/24 19:48	
Etoxazole	118	0.1	ppm	60-120	02/22/24 13:20	02/23/24 19:48	
Fenoxycarb	120	0.1	ppm	60-120	02/22/24 13:20	02/23/24 19:48	
Fenpyroximate	118	0.1	ppm	60-120	02/22/24 13:20	02/23/24 19:48	
Flonicamid	118	0.1	ppm	60-120	02/22/24 13:20	02/23/24 19:48	
Hexythiazox	101	0.1	ppm	60-120	02/22/24 13:20	02/23/24 19:48	
Imazalil	117	0.1	ppm	60-120	02/22/24 13:20	02/23/24 19:48	



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### Quality Control Pesticide Analysis (Continued)

Batch: 2408069 - 202 (Continued)

LCS(2408069-BS1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Fipronil	93.6	0.1	ppm	60-120	02/22/24 13:20	02/23/24 15:23	
Imidacloprid	120	0.1	ppm	60-120	02/22/24 13:20	02/23/24 19:48	
Fludioxonil	122	0.1	ppm	50-150	02/22/24 13:20	02/23/24 15:23	
Metalaxyl	113	0.1	ppm	60-120	02/22/24 13:20	02/23/24 19:48	
Methiocarb	87.6	0.1	ppm	60-120	02/22/24 13:20	02/23/24 19:48	
Methomyl	193	0.1	ppm	60-120	02/22/24 13:20	02/23/24 19:48	BSH
Myclobutanil	118	0.1	ppm	60-120	02/22/24 13:20	02/23/24 19:48	
Kresoxim-methyl	108	0.1	ppm	60-120	02/22/24 13:20	02/23/24 15:23	
Naled	127	0.1	ppm	50-150	02/22/24 13:20	02/23/24 19:48	
Malathion	115	0.1	ppm	60-120	02/22/24 13:20	02/23/24 15:23	
Oxamyl	151	0.1	ppm	60-120	02/22/24 13:20	02/23/24 19:48	BSH
Paclobutrazol	114	0.1	ppm	60-120	02/22/24 13:20	02/23/24 19:48	
Permethrins	119	0.1	ppm	50-150	02/22/24 13:20	02/23/24 19:48	
Methyl parathion	83.7	0.1	ppm	50-150	02/22/24 13:20	02/23/24 15:23	
MGK-264	112	0.1	ppm	50-150	02/22/24 13:20	02/23/24 15:23	
Phosmet	85.5	0.1	ppm	50-150	02/22/24 13:20	02/23/24 19:48	
Piperonyl butoxide	105	0.9	ppm	60-120	02/22/24 13:20	02/23/24 19:48	
Prallethrin	143	0.1	ppm	60-120	02/22/24 13:20	02/23/24 19:48	BSH
Propoxur	107	0.1	ppm	60-120	02/22/24 13:20	02/23/24 19:48	
Pyrethrins	103	0.5	ppm	60-120	02/22/24 13:20	02/23/24 19:48	
Pyridaben	119	0.1	ppm	50-150	02/22/24 13:20	02/23/24 19:48	
Propiconazole	117	0.1	ppm	60-120	02/22/24 13:20	02/23/24 15:23	
Spinosad	101	0.1	ppm	50-150	02/22/24 13:20	02/23/24 19:48	
Spiromesifen	113	0.1	ppm	60-120	02/22/24 13:20	02/23/24 19:48	
Spirotetramat	110	0.1	ppm	60-120	02/22/24 13:20	02/23/24 19:48	
Spiroxamine	105	0.1	ppm	60-120	02/22/24 13:20	02/23/24 19:48	
Tebuconazole	113	0.1	ppm	60-120	02/22/24 13:20	02/23/24 19:48	
Thiacloprid	115	0.1	ppm	60-120	02/22/24 13:20	02/23/24 19:48	
Thiamethoxam	117	0.1	ppm	60-120	02/22/24 13:20	02/23/24 19:48	
Trifloxystrobin	115	0.1	ppm	60-120	02/22/24 13:20	02/23/24 19:48	
DDVP (Dichlorvos)	98.4	0.1	ppm	60-120	02/22/24 13:20	02/23/24 19:48	

### Solvent Analysis

Batch: 2408077 - 205

Blank(2408077-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Acetone	< LOQ	1000	ppm		02/23/24 10:23	02/24/24 22:44	
Acetonitrile	< LOQ	50.00	ppm		02/23/24 10:23	02/24/24 22:44	



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Patrick Hermonson  
Quality Officer - 2/26/2024



### Quality Control Solvent Analysis (Continued)

Batch: 2408077 - 205 (Continued)

Blank(2408077-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Benzene	< LOQ	1.000	ppm		02/23/24 10:23	02/26/24 09:47	
Butanes	< LOQ	1000	ppm		02/23/24 10:23	02/24/24 22:44	
2-Butanol	< LOQ	1000	ppm		02/23/24 10:23	02/24/24 22:44	
Cumene	< LOQ	35.00	ppm		02/23/24 10:23	02/24/24 22:44	
Cyclohexane	< LOQ	50.00	ppm		02/23/24 10:23	02/24/24 22:44	
Dichloromethane	< LOQ	50.00	ppm		02/23/24 10:23	02/24/24 22:44	
1,4-Dioxane	< LOQ	50.00	ppm		02/23/24 10:23	02/24/24 22:44	
Ethanol	< LOQ	50.00	ppm		02/23/24 10:23	02/24/24 22:44	
2-Ethoxyethanol	< LOQ	80.00	ppm		02/23/24 10:23	02/24/24 22:44	
Ethyl acetate	< LOQ	1000	ppm		02/23/24 10:23	02/24/24 22:44	
Ethyl benzene	< LOQ	35.00	ppm		02/23/24 10:23	02/24/24 22:44	
Ethylene glycol	< LOQ	310.0	ppm		02/23/24 10:23	02/26/24 09:47	
Ethylene oxide	< LOQ	25.00	ppm		02/23/24 10:23	02/24/24 22:44	
Ethyl ether	< LOQ	1000	ppm		02/23/24 10:23	02/24/24 22:44	
Heptane	< LOQ	1000	ppm		02/23/24 10:23	02/24/24 22:44	
Hexanes	< LOQ	50.00	ppm		02/23/24 10:23	02/24/24 22:44	
Isopropyl acetate	< LOQ	1000	ppm		02/23/24 10:23	02/24/24 22:44	
Methanol	< LOQ	1000	ppm		02/23/24 10:23	02/24/24 22:44	
Pentanes	< LOQ	1000	ppm		02/23/24 10:23	02/24/24 22:44	
Propane	< LOQ	1000	ppm		02/23/24 10:23	02/24/24 22:44	
2-Propanol (IPA)	< LOQ	1000	ppm		02/23/24 10:23	02/24/24 22:44	
Tetrahydrofuran	< LOQ	50.00	ppm		02/23/24 10:23	02/24/24 22:44	
Toluene	< LOQ	50.00	ppm		02/23/24 10:23	02/24/24 22:44	
Xylenes	< LOQ	50.00	ppm		02/23/24 10:23	02/24/24 22:44	

LCS(2408077-BS1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Acetone	110	1000	ppm	60-120	02/23/24 10:23	02/24/24 20:16	
Acetonitrile	109	50.00	ppm	60-120	02/23/24 10:23	02/24/24 20:16	
Benzene	99.8	1.000	ppm	60-120	02/23/24 10:23	02/24/24 20:16	
Butanes	113	1000	ppm	60-120	02/23/24 10:23	02/24/24 20:16	
2-Butanol	109	1000	ppm	60-120	02/23/24 10:23	02/24/24 20:16	
Cumene	110	35.00	ppm	60-120	02/23/24 10:23	02/24/24 20:16	
Cyclohexane	112	50.00	ppm	60-120	02/23/24 10:23	02/24/24 20:16	
Dichloromethane	111	50.00	ppm	60-120	02/23/24 10:23	02/24/24 20:16	
1,4-Dioxane	105	50.00	ppm	60-120	02/23/24 10:23	02/24/24 20:16	
2-Ethoxyethanol	99.4	80.00	ppm	60-120	02/23/24 10:23	02/24/24 20:16	
Ethyl acetate	109	1000	ppm	60-120	02/23/24 10:23	02/24/24 20:16	
Ethyl benzene	99.2	35.00	ppm	60-120	02/23/24 10:23	02/24/24 20:16	



Patrick Hermonson  
Quality Officer - 2/26/2024



### Quality Control Solvent Analysis (Continued)

Batch: 2408077 - 205 (Continued)

LCS(2408077-BS1)									
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes		
Ethylene glycol	138	310.0	ppm	60-120	02/23/24 10:23	02/24/24 20:16	BSH		
Ethylene oxide	108	25.00	ppm	60-120	02/23/24 10:23	02/24/24 20:16			
Ethyl ether	111	1000	ppm	60-120	02/23/24 10:23	02/24/24 20:16			
Heptane	111	1000	ppm	60-120	02/23/24 10:23	02/24/24 20:16			
Hexanes	113	50.00	ppm	60-120	02/23/24 10:23	02/24/24 20:16			
Isopropyl acetate	110	1000	ppm	60-120	02/23/24 10:23	02/24/24 20:16			
Methanol	107	1000	ppm	60-120	02/23/24 10:23	02/24/24 20:16			
Pentanes	113	1000	ppm	60-120	02/23/24 10:23	02/24/24 20:16			
Propane	118	1000	ppm	60-120	02/23/24 10:23	02/24/24 20:16			
2-Propanol (IPA)	112	1000	ppm	60-120	02/23/24 10:23	02/24/24 20:16			
Tetrahydrofuran	110	50.00	ppm	60-120	02/23/24 10:23	02/24/24 20:16			
Toluene	99.9	50.00	ppm	60-120	02/23/24 10:23	02/24/24 20:16			

### Metals

Batch: 2408073 - 217

Blank(2408073-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Cadmium	< LOQ	0.08	ug/g		02/23/24 09:25	02/24/24 13:03	
Lead	< LOQ	0.08	ug/g		02/23/24 09:25	02/24/24 13:03	
Arsenic	< LOQ	0.08	ug/g		02/23/24 09:25	02/24/24 13:03	
Mercury	< LOQ	0.04	ug/g		02/23/24 09:25	02/24/24 13:03	

LCS(2408073-BS1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Cadmium	96.9	0.08	ug/g	80-115	02/23/24 09:25	02/24/24 13:05	
Lead	101	0.08	ug/g	80-115	02/23/24 09:25	02/24/24 13:05	
Arsenic	96.1	0.08	ug/g	80-115	02/23/24 09:25	02/24/24 13:05	
Mercury	92.9	0.04	ug/g	80-115	02/23/24 09:25	02/24/24 13:05	



Patrick Hermonson  
Quality Officer - 2/26/2024



### Notes and Definitions

Regulatory Compliance samples were collected onsite at facility according to SOP-402 and SOP-403 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



Patrick Hermonson  
Quality Officer - 2/26/2024

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:** 24-002021/D002.R000  
**Report Date:** 02/28/2024  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 02/22/24 10:35

**Customer:** GVB Oregon  
**Product identity:** CBD Iso GVL-TST774  
**Client/Metric ID:** .  
**Laboratory ID:** 24-002021-0001

## Summary

### Microbiology:

*Less than LOQ for all analytes.*



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 Portland, OR 97230  
 503-254-1794



**Report Number:** 24-002021/D002.R000  
**Report Date:** 02/28/2024  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 02/22/24 10:35

**Customer:** GVB Oregon  
 United States of America (USA)  
**Product identity:** CBD Iso GVL-TST774  
**Client/Metric ID:** .  
**Sample Date:**  
**Laboratory ID:** 24-002021-0001  
**Evidence of Cooling:** No  
**Temp:** 15.9 °C  
**Relinquished by:** client

### Sample Results

Microbiology								
Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2401427	02/25/24 AOAC 991.14 (Petrifilm)		
Total Coliforms	< LOQ		cfu/g	10	2401427	02/25/24 AOAC 991.14 (Petrifilm)		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2401428	02/26/24 AOAC 2014.05 (RAPID)		I
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2401428	02/26/24 AOAC 2014.05 (RAPID)		I



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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.

**Units of Measure**

cfu/g = Colony forming units per gram

% wt =  $\mu\text{g/g}$  divided by 10,000

**Glossary of Qualifiers**

I: Insufficient sample received to meet method requirements.

Approved Signatory

Derrick Tanner  
General Manager



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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.