



CBG Iso GVL-TST876

Sample ID: G4K0363-01

Matrix: Hemp Extracts & Concentrates

Test ID: 5034442

Source ID:

Date Sampled: 11/29/24

Date Accepted: 11/29/24

Harvest/Prod. Date: 11.26.2024

GVB Oregon

info@gvbbiopharma.com

Results at a Glance

Total THC : <LOQ (0.0005%) %

Total CBD : <LOQ (0.0431%) %

CBG : 98.84 % PASS

Pesticides : PASS

Residual Solvent Analysis : PASS

Metals : PASS

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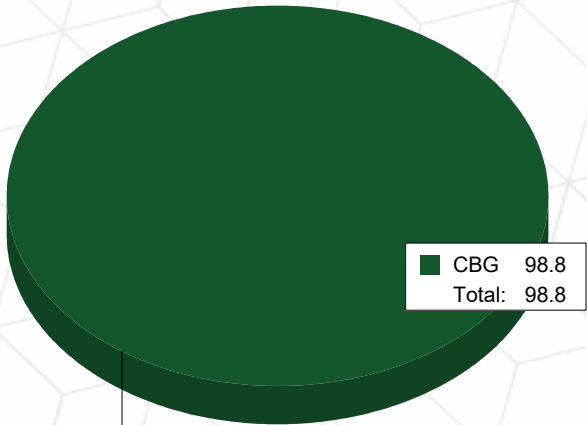
info@gvbbiopharma.com

Potency Analysis

Date/Time Extracted: 12/03/24 12:31

Analysis Method/SOP: 215

Batch Identification: 2449011

Cannabinoids	LOQ (%)	% by Wt.	mg/g	Cannabinoids Profile
Total THC	0.0005	< 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	< LOQ	< LOQ	
CBG	0.0164	98.84	988.4	
CBGA	0.0164	< LOQ	< LOQ	
CBC	0.0186	< LOQ	< LOQ	
Total Cannabinoids		98.84	988.4	

$$\text{Total THC} = \text{delta 9-THC} + (\text{THCA} * 0.877)$$
$$\text{Total CBD} = \text{CBD} + (\text{CBDA} * 0.877)$$
$$\text{Total CBG} = \text{CBG} + (\text{CBGA} * 0.878)$$

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



**ISO 17025
ACCREDITED
LABORATORY**

Shirley M. Mendenhall

Nolan Mundie
Lab Director - 12/4/2024

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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: 12/02/24 10:54

Analysis Method/SOP: 202

Analyte	Result	Action Level	LOD	LOQ	Units	Notes	Analyte	Result	Action Level	LOD	LOQ	Units	Notes
Abamectin	< LOQ	0.5		0.10	ppm		Acephate	< LOQ	0.4		0.10	ppm	
Acequinocyl	< LOQ	2		0.48	ppm		Acetamiprid	< LOQ	0.2		0.10	ppm	
Aldicarb	< LOQ	0.4		0.10	ppm		Azoxystrobin	< LOQ	0.2		0.10	ppm	
Bifenazate	< LOQ	0.2		0.10	ppm		Bifenthrin	< LOQ	0.2		0.10	ppm	
Boscalid	< LOQ	0.4		0.10	ppm		Carbaryl	< LOQ	0.2		0.10	ppm	
Carbofuran	< LOQ	0.2		0.10	ppm		Chlorantraniliprole	< LOQ	0.2		0.10	ppm	
Chlorfenapyr	< LOQ	1		0.10	ppm		Chlorpyrifos	< LOQ	0.2		0.10	ppm	
Clofentezine	< LOQ	0.2		0.10	ppm		Cyfluthrin	< LOQ	1		0.48	ppm	
Cypermethrin	< LOQ	1		0.48	ppm		Daminozide	< LOQ	1		0.48	ppm	
DDVP (Dichlorvos)	< LOQ	1		0.10	ppm		Diazinon	< LOQ	0.2		0.10	ppm	
Dimethoate	< LOQ	0.2		0.10	ppm		Ethoprophos	< LOQ	0.2		0.10	ppm	
Etofenprox	< LOQ	0.4		0.10	ppm		Etoxazole	< LOQ	0.2		0.10	ppm	
Fenoxycarb	< LOQ	0.2		0.10	ppm		Fenpyroximate	< LOQ	0.4		0.20	ppm	
Fipronil	< LOQ	0.4		0.10	ppm		Flonicamid	< LOQ	1		0.10	ppm	
Fludioxonil	< LOQ	0.4		0.10	ppm		Hexythiazox	< LOQ	1		0.10	ppm	
Imazalil	< LOQ	0.2		0.10	ppm		Imidacloprid	< LOQ	0.4		0.10	ppm	
Kresoxim-methyl	< LOQ	0.4		0.10	ppm		Malathion	< LOQ	0.2		0.10	ppm	
Metalaxyl	< LOQ	0.2		0.10	ppm		Methiocarb	< LOQ	0.2		0.10	ppm	
Methomyl	< LOQ	0.4		0.10	ppm		Methyl parathion	< LOQ	0.2		0.10	ppm	
MGK-264	< LOQ	0.2		0.10	ppm		Myclobutanil	< LOQ	0.2		0.10	ppm	
Naled	< LOQ	0.5		0.10	ppm		Oxamyl	< LOQ	1		0.10	ppm	
Paclobutrazol	< LOQ	0.4		0.10	ppm		Permethrins	< LOQ	0.2		0.10	ppm	
Phosmet	< LOQ	0.2		0.10	ppm		Piperonyl butoxide	< LOQ	2		0.90	ppm	
Prallethrin	< LOQ	0.2		0.10	ppm		Propiconazole	< LOQ	0.4		0.10	ppm	
Propoxur	< LOQ	0.2		0.10	ppm		Pyrethrins	< LOQ	1		0.48	ppm	
Pyridaben	< LOQ	0.2		0.10	ppm		Spinosad	< LOQ	0.2		0.10	ppm	
Spiromesifen	< LOQ	0.2		0.10	ppm		Spirotetramat	< LOQ	0.2		0.10	ppm	
Spiroxamine	< LOQ	0.4		0.10	ppm		Tebuconazole	< LOQ	0.4		0.10	ppm	
Thiacloprid	< LOQ	0.2		0.10	ppm		Thiamethoxam	< LOQ	0.2		0.10	ppm	
Trifloxystrobin	< LOQ	0.2		0.10	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: 11.26.2024

GVB Oregon

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Residual Solvents

Date/Time Extracted: 12/02/24 10:50

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: 11/29/24 16:50

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**.



Quality Control Potency

Batch: 2449011 - 215-Concentrates

Blank(2449011-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
THCA	< LOQ	0.0002	%		12/03/24 12:31	12/03/24 16:43	
delta 9-THC	< LOQ	0.0002	%		12/03/24 12:31	12/03/24 16:43	
delta 8-THC	< LOQ	0.0465	%		12/03/24 12:31	12/03/24 16:43	
THCV	< LOQ	0.0524	%		12/03/24 12:31	12/03/24 16:43	
THCVA	< LOQ	0.0195	%		12/03/24 12:31	12/03/24 16:43	
CBD	< LOQ	0.0002	%		12/03/24 12:31	12/03/24 16:43	
CBDA	< LOQ	0.0002	%		12/03/24 12:31	12/03/24 16:43	
CBDV	< LOQ	0.0518	%		12/03/24 12:31	12/03/24 16:43	
CBDVA	< LOQ	0.0170	%		12/03/24 12:31	12/03/24 16:43	
CBN	< LOQ	0.0310	%		12/03/24 12:31	12/03/24 16:43	
CBG	< LOQ	0.0082	%		12/03/24 12:31	12/03/24 16:43	
CBGA	< LOQ	0.0082	%		12/03/24 12:31	12/03/24 16:43	
CBC	< LOQ	0.0093	%		12/03/24 12:31	12/03/24 16:43	

Reference(2449011-SRM1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
THCA	91.4	0.0002	%	90-110	12/03/24 12:31	12/03/24 17:05	
delta 9-THC	93.8	0.0002	%	90-110	12/03/24 12:31	12/03/24 17:05	
delta 8-THC	100	0.0447	%	90-110	12/03/24 12:31	12/03/24 17:05	
CBD	96.2	0.0002	%	90-110	12/03/24 12:31	12/03/24 17:05	
CBDA	95.0	0.0002	%	90-110	12/03/24 12:31	12/03/24 17:05	

Pesticide Analysis

Batch: 2449006 - 202

Blank(2449006-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Abamectin	< LOQ	0.10	ppm		12/02/24 10:54	12/02/24 15:13	
Acephate	< LOQ	0.10	ppm		12/02/24 10:54	12/02/24 15:13	
Acequinocyl	< LOQ	0.48	ppm		12/02/24 10:54	12/02/24 15:13	
Acetamiprid	< LOQ	0.10	ppm		12/02/24 10:54	12/02/24 15:13	
Aldicarb	< LOQ	0.10	ppm		12/02/24 10:54	12/02/24 15:13	
Azoxystrobin	< LOQ	0.10	ppm		12/02/24 10:54	12/02/24 15:13	
Bifenazate	< LOQ	0.10	ppm		12/02/24 10:54	12/02/24 15:13	
Bifenthrin	< LOQ	0.10	ppm		12/02/24 10:54	12/02/24 15:13	
Boscalid	< LOQ	0.10	ppm		12/02/24 10:54	12/02/24 14:35	
Carbaryl	< LOQ	0.10	ppm		12/02/24 10:54	12/02/24 15:13	
Carbofuran	< LOQ	0.10	ppm		12/02/24 10:54	12/02/24 15:13	
Chlorantraniliprole	< LOQ	0.10	ppm		12/02/24 10:54	12/02/24 15:13	
Chlorfenapyr	< LOQ	0.10	ppm		12/02/24 10:54	12/02/24 14:35	



Quality Control Pesticide Analysis (Continued)

Batch: 2449006 - 202 (Continued)

Blank(2449006-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Chlorpyrifos	< LOQ	0.10	ppm		12/02/24 10:54	12/02/24 15:13	
Clofentezine	< LOQ	0.10	ppm		12/02/24 10:54	12/02/24 15:13	
Daminozide	< LOQ	0.48	ppm		12/02/24 10:54	12/02/24 15:13	
Cyfluthrin	< LOQ	0.48	ppm		12/02/24 10:54	12/02/24 14:35	
Diazinon	< LOQ	0.10	ppm		12/02/24 10:54	12/02/24 15:13	
Cypermethrin	< LOQ	0.48	ppm		12/02/24 10:54	12/02/24 14:35	
Dimethoate	< LOQ	0.10	ppm		12/02/24 10:54	12/02/24 15:13	
Ethoprophos	< LOQ	0.10	ppm		12/02/24 10:54	12/02/24 15:13	
Etofenprox	< LOQ	0.10	ppm		12/02/24 10:54	12/02/24 15:13	
Etoxazole	< LOQ	0.10	ppm		12/02/24 10:54	12/02/24 15:13	
Fenoxycarb	< LOQ	0.10	ppm		12/02/24 10:54	12/02/24 15:13	
Fenpyroximate	< LOQ	0.20	ppm		12/02/24 10:54	12/02/24 15:13	
Flonicamid	< LOQ	0.10	ppm		12/02/24 10:54	12/02/24 15:13	
Hexythiazox	< LOQ	0.10	ppm		12/02/24 10:54	12/02/24 15:13	
Imazalil	< LOQ	0.10	ppm		12/02/24 10:54	12/02/24 15:13	
Fipronil	< LOQ	0.10	ppm		12/02/24 10:54	12/02/24 14:35	
Imidacloprid	< LOQ	0.10	ppm		12/02/24 10:54	12/02/24 15:13	
Fludioxonil	< LOQ	0.10	ppm		12/02/24 10:54	12/02/24 14:35	
Metalaxyl	< LOQ	0.10	ppm		12/02/24 10:54	12/02/24 15:13	
Methiocarb	< LOQ	0.10	ppm		12/02/24 10:54	12/02/24 15:13	
Methomyl	< LOQ	0.10	ppm		12/02/24 10:54	12/02/24 15:13	
Myclobutanil	< LOQ	0.10	ppm		12/02/24 10:54	12/02/24 15:13	
Kresoxim-methyl	< LOQ	0.10	ppm		12/02/24 10:54	12/02/24 14:35	
Naled	< LOQ	0.10	ppm		12/02/24 10:54	12/02/24 15:13	
Malathion	< LOQ	0.10	ppm		12/02/24 10:54	12/02/24 14:35	
Oxamyl	< LOQ	0.10	ppm		12/02/24 10:54	12/02/24 15:13	
Paclobutrazol	< LOQ	0.10	ppm		12/02/24 10:54	12/02/24 15:13	
Permethrins	< LOQ	0.10	ppm		12/02/24 10:54	12/02/24 15:13	
Methyl parathion	< LOQ	0.10	ppm		12/02/24 10:54	12/02/24 14:35	
MGK-264	< LOQ	0.10	ppm		12/02/24 10:54	12/02/24 14:35	
Phosmet	< LOQ	0.10	ppm		12/02/24 10:54	12/02/24 15:13	
Piperonyl butoxide	< LOQ	0.90	ppm		12/02/24 10:54	12/02/24 15:13	
Prallethrin	< LOQ	0.10	ppm		12/02/24 10:54	12/02/24 15:13	
Propoxur	< LOQ	0.10	ppm		12/02/24 10:54	12/02/24 15:13	
Pyrethrins	< LOQ	0.48	ppm		12/02/24 10:54	12/02/24 15:13	
Pyridaben	< LOQ	0.10	ppm		12/02/24 10:54	12/02/24 15:13	
Propiconazole	< LOQ	0.10	ppm		12/02/24 10:54	12/02/24 14:35	
Spinosad	< LOQ	0.10	ppm		12/02/24 10:54	12/02/24 15:13	



Quality Control Pesticide Analysis (Continued)

Batch: 2449006 - 202 (Continued)

Blank(2449006-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Spiromesifen	< LOQ	0.10	ppm		12/02/24 10:54	12/02/24 15:13	
Spirotetramat	< LOQ	0.10	ppm		12/02/24 10:54	12/02/24 15:13	
Spiroxamine	< LOQ	0.10	ppm		12/02/24 10:54	12/02/24 15:13	
Tebuconazole	< LOQ	0.10	ppm		12/02/24 10:54	12/02/24 15:13	
Thiacloprid	< LOQ	0.10	ppm		12/02/24 10:54	12/02/24 15:13	
Thiamethoxam	< LOQ	0.10	ppm		12/02/24 10:54	12/02/24 15:13	
Trifloxystrobin	< LOQ	0.10	ppm		12/02/24 10:54	12/02/24 15:13	
DDVP (Dichlorvos)	< LOQ	0.10	ppm		12/02/24 10:54	12/02/24 15:13	

LCS(2449006-BS1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Abamectin	111	0.10	ppm	50-150	12/02/24 10:54	12/02/24 15:39	
Acephate	107	0.10	ppm	60-120	12/02/24 10:54	12/02/24 15:39	
Acequinocyl	97.6	0.48	ppm	40-160	12/02/24 10:54	12/02/24 15:39	
Acetamiprid	114	0.10	ppm	60-120	12/02/24 10:54	12/02/24 15:39	
Aldicarb	118	0.10	ppm	60-120	12/02/24 10:54	12/02/24 15:39	
Azoxystrobin	112	0.10	ppm	60-120	12/02/24 10:54	12/02/24 15:39	
Bifenazate	119	0.10	ppm	60-120	12/02/24 10:54	12/02/24 15:39	
Bifenthrin	120	0.10	ppm	50-150	12/02/24 10:54	12/02/24 15:39	
Boscalid	86.7	0.10	ppm	60-120	12/02/24 10:54	12/02/24 14:57	
Carbaryl	103	0.10	ppm	60-120	12/02/24 10:54	12/02/24 15:39	
Carbofuran	109	0.10	ppm	60-120	12/02/24 10:54	12/02/24 15:39	
Chlorantraniliprole	91.8	0.10	ppm	60-120	12/02/24 10:54	12/02/24 15:39	
Chlorfenapyr	116	0.10	ppm	60-120	12/02/24 10:54	12/02/24 14:57	
Chlorpyrifos	106	0.10	ppm	60-120	12/02/24 10:54	12/02/24 15:39	
Clofentezine	110	0.10	ppm	60-120	12/02/24 10:54	12/02/24 15:39	
Daminozide	137	0.48	ppm	60-120	12/02/24 10:54	12/02/24 15:39	BSH
Cyfluthrin	81.6	0.48	ppm	50-150	12/02/24 10:54	12/02/24 14:57	
Diazinon	112	0.10	ppm	60-120	12/02/24 10:54	12/02/24 15:39	
Cypermethrin	89.0	0.48	ppm	50-150	12/02/24 10:54	12/02/24 14:57	
Dimethoate	120	0.10	ppm	60-120	12/02/24 10:54	12/02/24 15:39	
Ethoprophos	114	0.10	ppm	60-120	12/02/24 10:54	12/02/24 15:39	
Etofenprox	108	0.10	ppm	50-150	12/02/24 10:54	12/02/24 15:39	
Etoxazole	112	0.10	ppm	60-120	12/02/24 10:54	12/02/24 15:39	
Fenoxycarb	109	0.10	ppm	60-120	12/02/24 10:54	12/02/24 15:39	
Fenpyroximate	102	0.20	ppm	60-120	12/02/24 10:54	12/02/24 15:39	
Flonicamid	107	0.10	ppm	60-120	12/02/24 10:54	12/02/24 15:39	
Hexythiazox	96.5	0.10	ppm	60-120	12/02/24 10:54	12/02/24 15:39	
Imazalil	103	0.10	ppm	60-120	12/02/24 10:54	12/02/24 15:39	



Quality Control Pesticide Analysis (Continued)

Batch: 2449006 - 202 (Continued)

LCS(2449006-BS1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Fipronil	89.5	0.10	ppm	60-120	12/02/24 10:54	12/02/24 14:57	
Imidacloprid	114	0.10	ppm	60-120	12/02/24 10:54	12/02/24 15:39	
Fludioxonil	71.0	0.10	ppm	50-150	12/02/24 10:54	12/02/24 14:57	
Metalaxyl	111	0.10	ppm	60-120	12/02/24 10:54	12/02/24 15:39	
Methiocarb	108	0.10	ppm	60-120	12/02/24 10:54	12/02/24 15:39	
Methomyl	117	0.10	ppm	60-120	12/02/24 10:54	12/02/24 15:39	
Myclobutanil	105	0.10	ppm	60-120	12/02/24 10:54	12/02/24 15:39	
Kresoxim-methyl	110	0.10	ppm	60-120	12/02/24 10:54	12/02/24 14:57	
Naled	114	0.10	ppm	50-150	12/02/24 10:54	12/02/24 15:39	
Malathion	113	0.10	ppm	60-120	12/02/24 10:54	12/02/24 14:57	
Oxamyl	112	0.10	ppm	60-120	12/02/24 10:54	12/02/24 15:39	
Paclobutrazol	108	0.10	ppm	60-120	12/02/24 10:54	12/02/24 15:39	
Permethrins	127	0.10	ppm	50-150	12/02/24 10:54	12/02/24 15:39	
Methyl parathion	76.0	0.10	ppm	50-150	12/02/24 10:54	12/02/24 14:57	
MGK-264	100	0.10	ppm	50-150	12/02/24 10:54	12/02/24 14:57	
Phosmet	113	0.10	ppm	50-150	12/02/24 10:54	12/02/24 15:39	
Piperonyl butoxide	93.6	0.90	ppm	60-120	12/02/24 10:54	12/02/24 15:39	
Prallethrin	118	0.10	ppm	60-120	12/02/24 10:54	12/02/24 15:39	
Propoxur	106	0.10	ppm	60-120	12/02/24 10:54	12/02/24 15:39	
Pyrethrins	105	0.48	ppm	60-120	12/02/24 10:54	12/02/24 15:39	
Pyridaben	111	0.10	ppm	50-150	12/02/24 10:54	12/02/24 15:39	
Propiconazole	106	0.10	ppm	60-120	12/02/24 10:54	12/02/24 14:57	
Spinosad	97.8	0.10	ppm	50-150	12/02/24 10:54	12/02/24 15:39	
Spiromesifen	108	0.10	ppm	60-120	12/02/24 10:54	12/02/24 15:39	
Spirotetramat	111	0.10	ppm	60-120	12/02/24 10:54	12/02/24 15:39	
Spiroxamine	102	0.10	ppm	60-120	12/02/24 10:54	12/02/24 15:39	
Tebuconazole	108	0.10	ppm	60-120	12/02/24 10:54	12/02/24 15:39	
Thiacloprid	113	0.10	ppm	60-120	12/02/24 10:54	12/02/24 15:39	
Thiamethoxam	117	0.10	ppm	60-120	12/02/24 10:54	12/02/24 15:39	
Trifloxystrobin	118	0.10	ppm	60-120	12/02/24 10:54	12/02/24 15:39	
DDVP (Dichlorvos)	105	0.10	ppm	60-120	12/02/24 10:54	12/02/24 15:39	

Solvent Analysis

Batch: 2449004 - 205

Blank(2449004-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Acetone	< LOQ	1000	ppm		12/02/24 10:50	12/03/24 10:22	
Acetonitrile	< LOQ	50.00	ppm		12/02/24 10:50	12/03/24 10:22	



Nolan Mundie
Lab Director - 12/4/2024

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.



Quality Control Solvent Analysis (Continued)

Batch: 2449004 - 205 (Continued)

Blank(2449004-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Benzene	< LOQ	1.000	ppm		12/02/24 10:50	12/03/24 10:22	
Butanes	< LOQ	1000	ppm		12/02/24 10:50	12/03/24 10:22	
2-Butanol	< LOQ	1000	ppm		12/02/24 10:50	12/03/24 10:22	
Cumene	< LOQ	35.00	ppm		12/02/24 10:50	12/03/24 10:22	
Cyclohexane	< LOQ	50.00	ppm		12/02/24 10:50	12/03/24 10:22	
Dichloromethane	< LOQ	50.00	ppm		12/02/24 10:50	12/03/24 10:22	
1,4-Dioxane	< LOQ	50.00	ppm		12/02/24 10:50	12/03/24 10:22	
Ethanol	< LOQ	50.00	ppm		12/02/24 10:50	12/03/24 10:22	
2-Ethoxyethanol	< LOQ	80.00	ppm		12/02/24 10:50	12/03/24 10:22	
Ethyl acetate	< LOQ	1000	ppm		12/02/24 10:50	12/03/24 10:22	
Ethyl benzene	< LOQ	35.00	ppm		12/02/24 10:50	12/03/24 10:22	
Ethylene glycol	< LOQ	310.0	ppm		12/02/24 10:50	12/03/24 10:22	
Ethylene oxide	< LOQ	25.00	ppm		12/02/24 10:50	12/03/24 10:22	
Ethyl ether	< LOQ	1000	ppm		12/02/24 10:50	12/03/24 10:22	
Heptane	< LOQ	1000	ppm		12/02/24 10:50	12/03/24 10:22	
Hexanes	< LOQ	50.00	ppm		12/02/24 10:50	12/03/24 10:22	
Isopropyl acetate	< LOQ	1000	ppm		12/02/24 10:50	12/03/24 10:22	
Methanol	< LOQ	1000	ppm		12/02/24 10:50	12/03/24 10:22	
Pentanes	< LOQ	1000	ppm		12/02/24 10:50	12/03/24 10:22	
Propane	< LOQ	1000	ppm		12/02/24 10:50	12/03/24 10:22	
2-Propanol (IPA)	< LOQ	1000	ppm		12/02/24 10:50	12/03/24 10:22	
Tetrahydrofuran	< LOQ	50.00	ppm		12/02/24 10:50	12/03/24 10:22	
Toluene	< LOQ	50.00	ppm		12/02/24 10:50	12/03/24 10:22	
Xylenes	< LOQ	50.00	ppm		12/02/24 10:50	12/03/24 10:22	

LCS(2449004-BS1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Acetone	75.2	1000	ppm	60-120	12/02/24 10:50	12/03/24 09:56	
Acetonitrile	74.7	50.00	ppm	60-120	12/02/24 10:50	12/03/24 09:56	
Benzene	67.7	1.000	ppm	60-120	12/02/24 10:50	12/03/24 09:56	
Butanes	67.1	1000	ppm	60-120	12/02/24 10:50	12/03/24 09:56	
2-Butanol	79.5	1000	ppm	60-120	12/02/24 10:50	12/03/24 09:56	
Cumene	70.0	35.00	ppm	60-120	12/02/24 10:50	12/03/24 09:56	
Cyclohexane	79.4	50.00	ppm	60-120	12/02/24 10:50	12/03/24 09:56	
Dichloromethane	74.7	50.00	ppm	60-120	12/02/24 10:50	12/03/24 09:56	
1,4-Dioxane	79.7	50.00	ppm	60-120	12/02/24 10:50	12/03/24 09:56	
2-Ethoxyethanol	90.6	80.00	ppm	60-120	12/02/24 10:50	12/03/24 09:56	
Ethyl acetate	77.5	1000	ppm	60-120	12/02/24 10:50	12/03/24 09:56	
Ethyl benzene	79.1	35.00	ppm	60-120	12/02/24 10:50	12/03/24 09:56	



Quality Control Solvent Analysis (Continued)

Batch: 2449004 - 205 (Continued)

LCS(2449004-BS1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Ethylene glycol	118	310.0	ppm	60-120	12/02/24 10:50	12/03/24 09:56	
Ethylene oxide	72.2	25.00	ppm	60-120	12/02/24 10:50	12/03/24 09:56	
Ethyl ether	74.9	1000	ppm	60-120	12/02/24 10:50	12/03/24 09:56	
Heptane	75.3	1000	ppm	60-120	12/02/24 10:50	12/03/24 09:56	
Hexanes	75.2	50.00	ppm	60-120	12/02/24 10:50	12/03/24 09:56	
Isopropyl acetate	78.0	1000	ppm	60-120	12/02/24 10:50	12/03/24 09:56	
Methanol	72.9	1000	ppm	60-120	12/02/24 10:50	12/03/24 09:56	
Pentanes	70.5	1000	ppm	60-120	12/02/24 10:50	12/03/24 09:56	
Propane	60.2	1000	ppm	60-120	12/02/24 10:50	12/03/24 09:56	
2-Propanol (IPA)	78.1	1000	ppm	60-120	12/02/24 10:50	12/03/24 09:56	
Tetrahydrofuran	75.5	50.00	ppm	60-120	12/02/24 10:50	12/03/24 09:56	
Toluene	70.2	50.00	ppm	60-120	12/02/24 10:50	12/03/24 09:56	

Metals

Batch: 2448061 - 217

Blank(2448061-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Cadmium	< LOQ	0.08	ug/g		11/29/24 16:50	11/30/24 13:26	
Lead	< LOQ	0.08	ug/g		11/29/24 16:50	11/30/24 13:26	
Arsenic	< LOQ	0.08	ug/g		11/29/24 16:50	11/30/24 13:26	
Mercury	< LOQ	0.04	ug/g		11/29/24 16:50	11/30/24 13:26	

LCS(2448061-BS1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Cadmium	100	0.08	ug/g	80-115	11/29/24 16:50	11/30/24 13:28	
Lead	103	0.08	ug/g	80-115	11/29/24 16:50	11/30/24 13:28	
Arsenic	96.1	0.08	ug/g	80-115	11/29/24 16:50	11/30/24 13:28	
Mercury	91.2	0.04	ug/g	80-115	11/29/24 16:50	11/30/24 13:28	



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
C	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
TPP	recovery accuracy in Matrix Spike.
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



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



Report Number: 24-013485/D001.R000
Report Date: 12/09/2024
ORELAP#: OR100028
Purchase Order:
Received: 12/02/24 10:40

Customer: GVB Oregon
Product identity: CBG Iso GVL-TST876
Client/Metric ID: .
Laboratory ID: 24-013485-0001

Summary

Microbiology:

Less than LOQ for all analytes.



Customer: GVB Oregon
United States of America (USA)
Product identity: CBG Iso GVL-TST876
Client/Metric ID: .
Sample Date:
Laboratory ID: 24-013485-0001
Evidence of Cooling: No
Temp: 13.6 °C

Sample Results

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2409266	12/05/24 AOAC 991.14 (Petrifilm)		
Total Coliforms	< LOQ		cfu/g	10	2409266	12/05/24 AOAC 991.14 (Petrifilm)		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2409267	12/06/24 AOAC 2014.05 (RAPID)		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2409267	12/06/24 AOAC 2014.05 (RAPID)		



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Portland, OR 97230
503-254-1794



Report Number: 24-013485/D001.R000
Report Date: 12/09/2024
ORELAP#: OR100028
Purchase Order:
Received: 12/02/24 10:40

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 = µg/g divided by 10,000



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503-254-1794



Report Number: 24-013485/D001.R000
Report Date: 12/09/2024
ORELAP#: OR100028
Purchase Order:
Received: 12/02/24 10:40



Hemp & Cannabis
Chain of Custody

GVB-Oregon-1732660847

					Testing	
<div>Company Details Company: <u>GVB Oregon</u> Contact: <u>Bharath Pogula</u> Street Address: <u>374 NE Peters Rd</u> City, State, Zip: <u>Prineville, OR 97754</u> Email: <u>bharath@gvbbiopharma.com</u> Contact Phone: <u>9737225455</u> Billing Information Billing Email: <u>bharath@gvbbiopharma.com</u></div> <div>Project Details Turnaround Time: <u>5 Business Days Reg. For Micro Testing Standard</u> Relinquishment Sampling, Courier & Shipping Options: <u>By Shipping Service (USPS, UPS, Fedex)</u> Receipt Information Prelog Storage: <u>Canna Shelves</u> Sample Condition: <u>Satisfactory</u></div>					M075 - E. coli/Coliform Count (EC) Petri Im	M283 - RAPID Yeast and Mold Count (RYM) Petri Im
#	Sample Name	Material	Amount Provided	Reporting Unit		
1	CBG Iso G/L-TST876	Cannabinoid Extract	10 g	%	✓	✓

Relinquished By	Date	Time	Received By	Date	Time	Received Temp., °C	Evidence of Cooling?

Samples submitted to Columbia Laboratories with testing requirements constitute an agreement for services in accordance with the [current terms of services](#) associated with this COC. By signing "Relinquished by" you are agreeing to these terms.

Columbia Laboratories
12423 NE Whitaker Way
Portland, OR 97230

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Page 1 of 1
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Report Number: 24-013485/D001.R000
Report Date: 12/09/2024
ORELAP#: OR100028
Purchase Order:
Received: 12/02/24 10:40





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.