Green Leaf Lab
12025 NE Marx St. Portland, OR 97220
503-253-3511 / www.greenleaflabs.com
License#: 10029074C70

Quality Control Testing
Official Report

CBG Iso GVL-TST792

Sample ID: G4C0352-01 **Matrix:** Hemp Extracts & Concentrates
Test ID: 5027415
Source ID:
Date Sampled: 03/26/24 **Date Accepted:** 03/26/24

Harvest/Prod. Date: 03.22.2024

GVB Oregon
info@gvbbiopharma.com

Results at a Glance

Total THC : <LOQ (0.0005%) %

Total CBD : <LOQ (0.0431%) %

CBG : 99.29 % PASS

Pesticides : PASS

Residual Solvent Analysis : PASS

Metals : PASS

ISO 17025 ACCREDITED LABORATORY

Nolan Mundie
Lab Director - 4/1/2024

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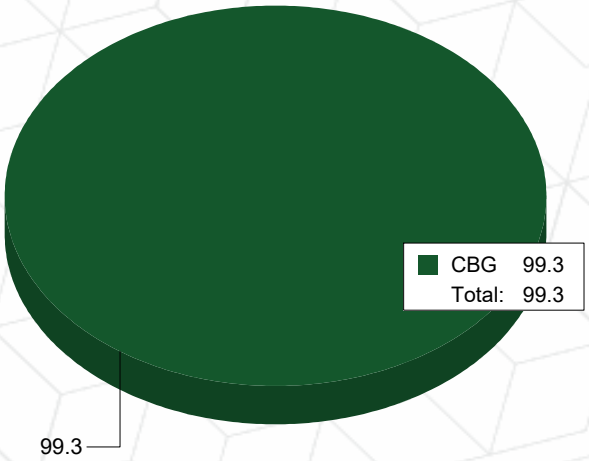
Potency Analysis

Date/Time Extracted: 03/27/24 13:04 **Analysis Method/SOP: 215** **Batch Identification: 2413044**

Cannabinoids	LOQ (%)	% by Wt.	mg/g
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	99.29	992.9
CBGA	0.0164	< LOQ	< LOQ
CBC	0.0186	< LOQ	< LOQ
Total Cannabinoids		99.29	992.9

Cannabinoids Profile



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

QUALITY MANAGEMENT SYSTEM
ISO 17025
ACCREDITED
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Harvest/Prod. Date: 03.22.2024

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Pesticide Analysis in ppm

Date/Time Extracted: 03/27/24 09:07
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		0.10	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: 03.22.2024

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Residual Solvents

Date/Time Extracted: 03/27/24 10:35 **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: 03/26/24 10:07 **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 Testing
Official Report

Quality Control

Potency

Batch: 2413044 - 215-Concentrates

Blank(2413044-BLK1)

Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
THCA	< LOQ	0.0005	%		03/27/24 13:04	03/28/24 02:30	
delta 9-THC	< LOQ	0.0005	%		03/27/24 13:04	03/28/24 02:30	
delta 8-THC	< LOQ	0.0934	%		03/27/24 13:04	03/28/24 02:30	
THCV	< LOQ	0.1052	%		03/27/24 13:04	03/28/24 02:30	
THCVA	< LOQ	0.0392	%		03/27/24 13:04	03/28/24 02:30	
CBD	< LOQ	0.0005	%		03/27/24 13:04	03/28/24 02:30	
CBDA	< LOQ	0.0005	%		03/27/24 13:04	03/28/24 02:30	
CBDV	< LOQ	0.1040	%		03/27/24 13:04	03/28/24 02:30	
CBDVA	< LOQ	0.0341	%		03/27/24 13:04	03/28/24 02:30	
CBN	< LOQ	0.0622	%		03/27/24 13:04	03/28/24 02:30	
CBG	< LOQ	0.0164	%		03/27/24 13:04	03/28/24 02:30	
CBGA	< LOQ	0.0164	%		03/27/24 13:04	03/28/24 02:30	
CBC	< LOQ	0.0186	%		03/27/24 13:04	03/28/24 02:30	

Reference(2413044-SRM1)

Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
THCA	105	0.0002	%	90-110	03/27/24 13:04	03/28/24 02:53	
delta 9-THC	110	0.0002	%	90-110	03/27/24 13:04	03/28/24 02:53	
delta 8-THC	102	0.0453	%	90-110	03/27/24 13:04	03/28/24 02:53	
CBD	106	0.0002	%	90-110	03/27/24 13:04	03/28/24 02:53	
CBDA	93.5	0.0002	%	90-110	03/27/24 13:04	03/28/24 02:53	

Pesticide Analysis

Batch: 2413027 - 202

Blank(2413027-BLK1)

Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Abamectin	< LOQ	0.10	ppm		03/27/24 09:07	03/27/24 16:46	
Acephate	< LOQ	0.10	ppm		03/27/24 09:07	03/27/24 16:46	
Acequinocyl	< LOQ	0.48	ppm		03/27/24 09:07	03/27/24 16:46	
Acetamiprid	< LOQ	0.10	ppm		03/27/24 09:07	03/27/24 16:46	
Aldicarb	< LOQ	0.10	ppm		03/27/24 09:07	03/27/24 16:46	
Azoxystrobin	< LOQ	0.10	ppm		03/27/24 09:07	03/27/24 16:46	
Bifenazate	< LOQ	0.10	ppm		03/27/24 09:07	03/27/24 16:46	
Bifenthrin	< LOQ	0.10	ppm		03/27/24 09:07	03/27/24 16:46	
Boscalid	< LOQ	0.10	ppm		03/27/24 09:07	03/27/24 13:56	
Carbaryl	< LOQ	0.10	ppm		03/27/24 09:07	03/27/24 16:46	
Carbofuran	< LOQ	0.10	ppm		03/27/24 09:07	03/27/24 16:46	
Chlorantraniliprole	< LOQ	0.10	ppm		03/27/24 09:07	03/27/24 16:46	
Chlorfenapyr	< LOQ	0.10	ppm		03/27/24 09:07	03/27/24 13:56	

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Quality Control

Pesticide Analysis (Continued)

Batch: 2413027 - 202 (Continued)

Blank(2413027-BLK1)

Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Chlorpyrifos	< LOQ	0.10	ppm		03/27/24 09:07	03/27/24 16:46	
Clofentezine	< LOQ	0.10	ppm		03/27/24 09:07	03/27/24 16:46	
Daminozide	< LOQ	0.48	ppm		03/27/24 09:07	03/27/24 16:46	
Cyfluthrin	< LOQ	0.48	ppm		03/27/24 09:07	03/27/24 13:56	
Diazinon	< LOQ	0.10	ppm		03/27/24 09:07	03/27/24 16:46	
Cypermethrin	< LOQ	0.48	ppm		03/27/24 09:07	03/27/24 13:56	
Dimethoate	< LOQ	0.10	ppm		03/27/24 09:07	03/27/24 16:46	
Ethoprophos	< LOQ	0.10	ppm		03/27/24 09:07	03/27/24 16:46	
Etofenprox	< LOQ	0.10	ppm		03/27/24 09:07	03/27/24 16:46	
Etoxazole	< LOQ	0.10	ppm		03/27/24 09:07	03/27/24 16:46	
Fenoxycarb	< LOQ	0.10	ppm		03/27/24 09:07	03/27/24 16:46	
Fenpyroximate	< LOQ	0.10	ppm		03/27/24 09:07	03/27/24 16:46	
Flonicamid	< LOQ	0.10	ppm		03/27/24 09:07	03/27/24 16:46	
Hexythiazox	< LOQ	0.10	ppm		03/27/24 09:07	03/27/24 16:46	
Imazalil	< LOQ	0.10	ppm		03/27/24 09:07	03/27/24 16:46	
Fipronil	< LOQ	0.10	ppm		03/27/24 09:07	03/27/24 13:56	
Imidacloprid	< LOQ	0.10	ppm		03/27/24 09:07	03/27/24 16:46	
Fludioxonil	< LOQ	0.10	ppm		03/27/24 09:07	03/27/24 13:56	
Metalaxyl	< LOQ	0.10	ppm		03/27/24 09:07	03/27/24 16:46	
Methiocarb	< LOQ	0.10	ppm		03/27/24 09:07	03/27/24 16:46	
Methomyl	< LOQ	0.10	ppm		03/27/24 09:07	03/27/24 16:46	
Myclobutanil	< LOQ	0.10	ppm		03/27/24 09:07	03/27/24 16:46	
Kresoxim-methyl	< LOQ	0.10	ppm		03/27/24 09:07	03/27/24 13:56	
Naled	< LOQ	0.10	ppm		03/27/24 09:07	03/27/24 16:46	
Malathion	< LOQ	0.10	ppm		03/27/24 09:07	03/27/24 13:56	
Oxamyl	< LOQ	0.10	ppm		03/27/24 09:07	03/27/24 16:46	
Paclobutrazol	< LOQ	0.10	ppm		03/27/24 09:07	03/27/24 16:46	
Permethrins	< LOQ	0.10	ppm		03/27/24 09:07	03/27/24 16:46	
Methyl parathion	< LOQ	0.10	ppm		03/27/24 09:07	03/27/24 13:56	
MGK-264	< LOQ	0.10	ppm		03/27/24 09:07	03/27/24 13:56	
Phosmet	< LOQ	0.10	ppm		03/27/24 09:07	03/27/24 16:46	
Piperonyl butoxide	< LOQ	0.90	ppm		03/27/24 09:07	03/27/24 16:46	
Prallethrin	< LOQ	0.10	ppm		03/27/24 09:07	03/27/24 16:46	
Propoxur	< LOQ	0.10	ppm		03/27/24 09:07	03/27/24 16:46	
Pyrethrins	< LOQ	0.48	ppm		03/27/24 09:07	03/27/24 16:46	
Pyridaben	< LOQ	0.10	ppm		03/27/24 09:07	03/27/24 16:46	
Propiconazole	< LOQ	0.10	ppm		03/27/24 09:07	03/27/24 13:56	
Spinosad	< LOQ	0.10	ppm		03/27/24 09:07	03/27/24 16:46	

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Quality Control

Pesticide Analysis (Continued)

Batch: 2413027 - 202 (Continued)

Blank(2413027-BLK1)

Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Spiromesifen	< LOQ	0.10	ppm		03/27/24 09:07	03/27/24 16:46	
Spirotetramat	< LOQ	0.10	ppm		03/27/24 09:07	03/27/24 16:46	
Spiroxamine	< LOQ	0.10	ppm		03/27/24 09:07	03/27/24 16:46	
Tebuconazole	< LOQ	0.10	ppm		03/27/24 09:07	03/27/24 16:46	
Thiacloprid	< LOQ	0.10	ppm		03/27/24 09:07	03/27/24 16:46	
Thiamethoxam	< LOQ	0.10	ppm		03/27/24 09:07	03/27/24 16:46	
Trifloxystrobin	< LOQ	0.10	ppm		03/27/24 09:07	03/27/24 16:46	
DDVP (Dichlorvos)	< LOQ	0.10	ppm		03/27/24 09:07	03/27/24 16:46	

LCS(2413027-BS1)

Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Abamectin	108	0.10	ppm	50-150	03/27/24 09:07	03/27/24 17:12	
Acephate	112	0.10	ppm	60-120	03/27/24 09:07	03/27/24 17:12	
Acequinocyl	103	0.48	ppm	40-160	03/27/24 09:07	03/27/24 17:12	
Acetamiprid	97.3	0.10	ppm	60-120	03/27/24 09:07	03/27/24 17:12	
Aldicarb	98.2	0.10	ppm	60-120	03/27/24 09:07	03/27/24 17:12	
Azoxystrobin	91.1	0.10	ppm	60-120	03/27/24 09:07	03/27/24 17:12	
Bifenazate	103	0.10	ppm	60-120	03/27/24 09:07	03/27/24 17:12	
Bifenthrin	113	0.10	ppm	50-150	03/27/24 09:07	03/27/24 17:12	
Boscalid	69.8	0.10	ppm	60-120	03/27/24 09:07	03/27/24 14:18	
Carbaryl	131	0.10	ppm	60-120	03/27/24 09:07	03/27/24 17:12	BSH
Carbofuran	103	0.10	ppm	60-120	03/27/24 09:07	03/27/24 17:12	
Chlorantraniliprole	81.6	0.10	ppm	60-120	03/27/24 09:07	03/27/24 17:12	
Chlorfenapyr	61.4	0.10	ppm	60-120	03/27/24 09:07	03/27/24 14:18	
Chlorpyrifos	88.2	0.10	ppm	60-120	03/27/24 09:07	03/27/24 17:12	
Clofentezine	92.0	0.10	ppm	60-120	03/27/24 09:07	03/27/24 17:12	
Daminozide	68.0	0.48	ppm	60-120	03/27/24 09:07	03/27/24 17:12	
Cyfluthrin	89.6	0.48	ppm	50-150	03/27/24 09:07	03/27/24 14:18	
Diazinon	96.1	0.10	ppm	60-120	03/27/24 09:07	03/27/24 17:12	
Cypermethrin	100	0.48	ppm	50-150	03/27/24 09:07	03/27/24 14:18	
Dimethoate	103	0.10	ppm	60-120	03/27/24 09:07	03/27/24 17:12	
Ethoprophos	99.2	0.10	ppm	60-120	03/27/24 09:07	03/27/24 17:12	
Etofenprox	91.5	0.10	ppm	50-150	03/27/24 09:07	03/27/24 17:12	
Etoxazole	93.6	0.10	ppm	60-120	03/27/24 09:07	03/27/24 17:12	
Fenoxycarb	90.0	0.10	ppm	60-120	03/27/24 09:07	03/27/24 17:12	
Fenpyroximate	87.4	0.10	ppm	60-120	03/27/24 09:07	03/27/24 17:12	
Flonicamid	78.5	0.10	ppm	60-120	03/27/24 09:07	03/27/24 17:12	
Hexythiazox	82.3	0.10	ppm	60-120	03/27/24 09:07	03/27/24 17:12	
Imazalil	93.3	0.10	ppm	60-120	03/27/24 09:07	03/27/24 17:12	

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Quality Control

Pesticide Analysis (Continued)

Batch: 2413027 - 202 (Continued)

LCS(2413027-BS1)

Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Fipronil	86.5	0.10	ppm	60-120	03/27/24 09:07	03/27/24 14:18	
Imidacloprid	65.1	0.10	ppm	60-120	03/27/24 09:07	03/27/24 17:12	
Fludioxonil	81.1	0.10	ppm	50-150	03/27/24 09:07	03/27/24 14:18	
Metalaxyl	96.1	0.10	ppm	60-120	03/27/24 09:07	03/27/24 17:12	
Methiocarb	119	0.10	ppm	60-120	03/27/24 09:07	03/27/24 17:12	
Methomyl	96.3	0.10	ppm	60-120	03/27/24 09:07	03/27/24 17:12	
Myclobutanil	90.4	0.10	ppm	60-120	03/27/24 09:07	03/27/24 17:12	
Kresoxim-methyl	111	0.10	ppm	60-120	03/27/24 09:07	03/27/24 14:18	
Naled	100	0.10	ppm	50-150	03/27/24 09:07	03/27/24 17:12	
Malathion	95.5	0.10	ppm	60-120	03/27/24 09:07	03/27/24 14:18	
Oxamyl	97.1	0.10	ppm	60-120	03/27/24 09:07	03/27/24 17:12	
Paclobutrazol	93.1	0.10	ppm	60-120	03/27/24 09:07	03/27/24 17:12	
Permethrins	105	0.10	ppm	50-150	03/27/24 09:07	03/27/24 17:12	
Methyl parathion	102	0.10	ppm	50-150	03/27/24 09:07	03/27/24 14:18	
MGK-264	93.5	0.10	ppm	50-150	03/27/24 09:07	03/27/24 14:18	
Phosmet	118	0.10	ppm	50-150	03/27/24 09:07	03/27/24 17:12	
Piperonyl butoxide	110	0.90	ppm	60-120	03/27/24 09:07	03/27/24 17:12	
Prallethrin	105	0.10	ppm	60-120	03/27/24 09:07	03/27/24 17:12	
Propoxur	104	0.10	ppm	60-120	03/27/24 09:07	03/27/24 17:12	
Pyrethrins	77.0	0.48	ppm	60-120	03/27/24 09:07	03/27/24 17:12	
Pyridaben	94.2	0.10	ppm	50-150	03/27/24 09:07	03/27/24 17:12	
Propiconazole	92.4	0.10	ppm	60-120	03/27/24 09:07	03/27/24 14:18	
Spinosad	47.6	0.10	ppm	50-150	03/27/24 09:07	03/27/24 17:12	BSL
Spiromesifen	85.6	0.10	ppm	60-120	03/27/24 09:07	03/27/24 17:12	
Spirotetramat	84.2	0.10	ppm	60-120	03/27/24 09:07	03/27/24 17:12	
Spiroxamine	62.7	0.10	ppm	60-120	03/27/24 09:07	03/27/24 17:12	
Tebuconazole	86.4	0.10	ppm	60-120	03/27/24 09:07	03/27/24 17:12	
Thiacloprid	96.3	0.10	ppm	60-120	03/27/24 09:07	03/27/24 17:12	
Thiamethoxam	79.4	0.10	ppm	60-120	03/27/24 09:07	03/27/24 17:12	
Trifloxystrobin	94.7	0.10	ppm	60-120	03/27/24 09:07	03/27/24 17:12	
DDVP (Dichlorvos)	116	0.10	ppm	60-120	03/27/24 09:07	03/27/24 17:12	

Solvent Analysis

Batch: 2413034 - 205

Blank(2413034-BLK1)

Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Acetone	< LOQ	1000	ppm		03/27/24 10:35	03/28/24 10:40	
Acetonitrile	< LOQ	50.00	ppm		03/27/24 10:35	03/28/24 10:40	

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Nolan Mundie
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Quality Control

Solvent Analysis (Continued)

Batch: 2413034 - 205 (Continued)

Blank(2413034-BLK1)

Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Benzene	< LOQ	1.000	ppm		03/27/24 10:35	03/28/24 10:40	
Butanes	< LOQ	1000	ppm		03/27/24 10:35	03/28/24 10:40	
2-Butanol	< LOQ	1000	ppm		03/27/24 10:35	03/28/24 10:40	
Cumene	< LOQ	35.00	ppm		03/27/24 10:35	03/28/24 10:40	
Cyclohexane	< LOQ	50.00	ppm		03/27/24 10:35	03/28/24 10:40	
Dichloromethane	< LOQ	50.00	ppm		03/27/24 10:35	03/28/24 10:40	
1,4-Dioxane	< LOQ	50.00	ppm		03/27/24 10:35	03/28/24 10:40	
Ethanol	< LOQ	50.00	ppm		03/27/24 10:35	03/28/24 10:40	
2-Ethoxyethanol	< LOQ	80.00	ppm		03/27/24 10:35	03/28/24 10:40	
Ethyl acetate	< LOQ	1000	ppm		03/27/24 10:35	03/28/24 10:40	
Ethyl benzene	< LOQ	35.00	ppm		03/27/24 10:35	03/28/24 10:40	
Ethylene glycol	< LOQ	310.0	ppm		03/27/24 10:35	03/28/24 10:40	
Ethylene oxide	< LOQ	25.00	ppm		03/27/24 10:35	03/28/24 10:40	
Ethyl ether	< LOQ	1000	ppm		03/27/24 10:35	03/28/24 10:40	
Heptane	< LOQ	1000	ppm		03/27/24 10:35	03/28/24 10:40	
Hexanes	< LOQ	50.00	ppm		03/27/24 10:35	03/28/24 10:40	
Isopropyl acetate	< LOQ	1000	ppm		03/27/24 10:35	03/28/24 10:40	
Methanol	< LOQ	1000	ppm		03/27/24 10:35	03/28/24 10:40	
Pentanes	< LOQ	1000	ppm		03/27/24 10:35	03/28/24 10:40	
Propane	< LOQ	1000	ppm		03/27/24 10:35	03/28/24 10:40	
2-Propanol (IPA)	< LOQ	1000	ppm		03/27/24 10:35	03/28/24 10:40	
Tetrahydrofuran	< LOQ	50.00	ppm		03/27/24 10:35	03/28/24 10:40	
Toluene	< LOQ	50.00	ppm		03/27/24 10:35	03/28/24 10:40	
Xylenes	< LOQ	50.00	ppm		03/27/24 10:35	03/28/24 10:40	

LCS(2413034-BS1)

Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Acetone	103	1000	ppm	60-120	03/27/24 10:35	03/27/24 14:00	
Acetonitrile	111	50.00	ppm	60-120	03/27/24 10:35	03/27/24 14:00	
Benzene	87.0	1.000	ppm	60-120	03/27/24 10:35	03/27/24 14:00	
Butanes	89.3	1000	ppm	60-120	03/27/24 10:35	03/27/24 14:00	
2-Butanol	115	1000	ppm	60-120	03/27/24 10:35	03/27/24 14:00	
Cumene	125	35.00	ppm	60-120	03/27/24 10:35	03/27/24 14:00	BSH
Cyclohexane	101	50.00	ppm	60-120	03/27/24 10:35	03/27/24 14:00	
Dichloromethane	108	50.00	ppm	60-120	03/27/24 10:35	03/27/24 14:00	
1,4-Dioxane	119	50.00	ppm	60-120	03/27/24 10:35	03/27/24 14:00	
2-Ethoxyethanol	141	80.00	ppm	60-120	03/27/24 10:35	03/27/24 14:00	BSH
Ethyl acetate	112	1000	ppm	60-120	03/27/24 10:35	03/27/24 14:00	
Ethyl benzene	112	35.00	ppm	60-120	03/27/24 10:35	03/27/24 14:00	

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Lab Director - 4/1/2024

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Quality Control

Solvent Analysis (Continued)

Batch: 2413034 - 205 (Continued)

LCS(2413034-BS1)

Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Ethylene glycol	199	310.0	ppm	60-120	03/27/24 10:35	03/27/24 14:00	BSH
Ethylene oxide	97.9	25.00	ppm	60-120	03/27/24 10:35	03/27/24 14:00	
Ethyl ether	104	1000	ppm	60-120	03/27/24 10:35	03/27/24 14:00	
Heptane	101	1000	ppm	60-120	03/27/24 10:35	03/27/24 14:00	
Hexanes	98.6	50.00	ppm	60-120	03/27/24 10:35	03/27/24 14:00	
Isopropyl acetate	111	1000	ppm	60-120	03/27/24 10:35	03/27/24 14:00	
Methanol	103	1000	ppm	60-120	03/27/24 10:35	03/27/24 14:00	
Pentanes	95.1	1000	ppm	60-120	03/27/24 10:35	03/27/24 14:00	
Propane	70.1	1000	ppm	60-120	03/27/24 10:35	03/27/24 14:00	
2-Propanol (IPA)	112	1000	ppm	60-120	03/27/24 10:35	03/27/24 14:00	
Tetrahydrofuran	107	50.00	ppm	60-120	03/27/24 10:35	03/27/24 14:00	
Toluene	103	50.00	ppm	60-120	03/27/24 10:35	03/27/24 14:00	

Metals

Batch: 2413014 - 217

Blank(2413014-BLK1)

Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Cadmium	< LOQ	0.08	ug/g		03/26/24 10:07	03/27/24 14:33	
Lead	< LOQ	0.08	ug/g		03/26/24 10:07	03/27/24 14:33	
Arsenic	< LOQ	0.08	ug/g		03/26/24 10:07	03/27/24 14:33	
Mercury	< LOQ	0.04	ug/g		03/26/24 10:07	03/27/24 14:33	

LCS(2413014-BS1)

Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Cadmium	99.8	0.08	ug/g	80-115	03/26/24 10:07	03/27/24 14:35	
Lead	102	0.08	ug/g	80-115	03/26/24 10:07	03/27/24 14:35	
Arsenic	91.7	0.08	ug/g	80-115	03/26/24 10:07	03/27/24 14:35	
Mercury	91.1	0.04	ug/g	80-115	03/26/24 10:07	03/27/24 14:35	

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Lab Director - 4/1/2024

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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

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Nolan Mundie
Lab Director - 4/1/2024

Columbia LABORATORIES
A Tentamus Company

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

Report Number:	24-003231/D001.R000
Report Date:	04/01/2024
ORELAP#:	OR100028
Purchase Order:	
Received:	03/25/24 10:54

Customer:	GVB Oregon
Product identity:	CBG Iso GVL-TST792
Client/Metrc ID:	.
Laboratory ID:	24-003231-0001

Summary

Microbiology:

Less than LOQ for all analytes.

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503-254-1794

Report Number:	24-003231/D001.R000
Report Date:	04/01/2024
ORELAP#:	OR100028
Purchase Order:	
Received:	03/25/24 10:54

Customer:	GVB Oregon United States of America (USA)
Product identity:	CBG Iso GVL-TST792
Client/Metrc ID:	.
Sample Date:	
Laboratory ID:	24-003231-0001
Evidence of Cooling:	No
Temp:	17.3 °C

Sample Results

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed	Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2402308	03/28/24	AOAC 991.14 (Petrifilm)		
Total Coliforms	< LOQ		cfu/g	10	2402308	03/28/24	AOAC 991.14 (Petrifilm)		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2402309	03/29/24	AOAC 2014.05 (RAPID)		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2402309	03/29/24	AOAC 2014.05 (RAPID)		

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ORELAP#:	OR100028
Purchase Order:	
Received:	03/25/24 10:54

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

Approved Signatory

Derrick Tanner
General Manager

Columbia LABORATORIES
A Tentamus Company

12423 NE Whitaker Way
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Report Number:	24-003231/D001.R000
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ORELAP#:	OR100028
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Received:	03/25/24 10:54

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Report Date: 04/01/2024
ORELAP#: OR100028
Purchase Order:
Received: 03/25/24 10:54

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	Quantitaion 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.