



CBN Iso GVL-TST874

Sample ID: G4K0283-01

Matrix: Hemp Extracts & Concentrates

Test ID: 5034218

Source ID:

Date Sampled: 11/22/24

Date Accepted: 11/22/24

Harvest/Prod. Date: 11.19.2024

GVB Oregon

info@gvbbiopharma.com

Results at a Glance

Total THC : <LOQ (0.0005%) %

Total CBD : <LOQ (0.0431%) %

CBN : 98.46 % PASS

Pesticides : PASS

Residual Solvent Analysis : PASS

Metals : PASS



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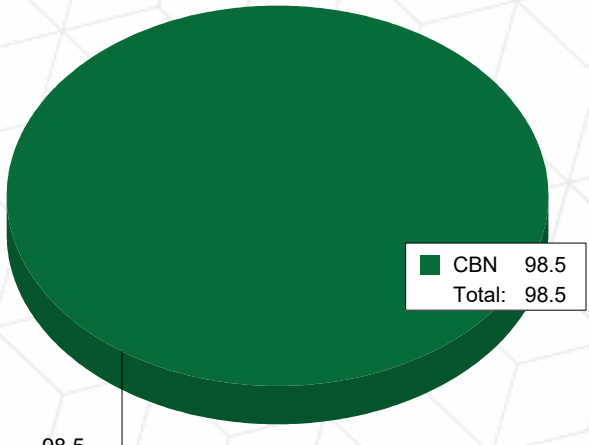
info@gvbbiopharma.com

Potency Analysis

Date/Time Extracted: 11/25/24 10:26

Analysis Method/SOP: 215

Batch Identification: 2448007

Cannabinoids	LOQ (%)	% by Wt.	mg/g	Cannabinoids Profile
Total THC	0.0005	< LOQ	< LOQ	 98.5 ■ CBN 98.5 Total: 98.5
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	98.46	984.6	
CBG	0.0164	< LOQ	< LOQ	
CBGA	0.0164	< LOQ	< LOQ	
CBC	0.0186	< LOQ	< LOQ	
Total Cannabinoids		98.46	984.6	

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



**ISO 17025
ACCREDITED
LABORATORY**



Nolan Mundie

Lab Director - 11/27/2024

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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: 11/23/24 12:54

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		Fonicamid	< 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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Residual Solvents

Date/Time Extracted: 11/26/24 10:56

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: 11/23/24 11:10

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: 2448007 - 215-Concentrates

Blank(2448007-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
THCA	< LOQ	0.0002	%		11/25/24 10:26	11/25/24 16:25	
delta 9-THC	< LOQ	0.0002	%		11/25/24 10:26	11/25/24 16:25	
delta 8-THC	< LOQ	0.0459	%		11/25/24 10:26	11/25/24 16:25	
THCV	< LOQ	0.0517	%		11/25/24 10:26	11/25/24 16:25	
THCVA	< LOQ	0.0192	%		11/25/24 10:26	11/25/24 16:25	
CBD	< LOQ	0.0002	%		11/25/24 10:26	11/25/24 16:25	
CBDA	< LOQ	0.0002	%		11/25/24 10:26	11/25/24 16:25	
CBDV	< LOQ	0.0511	%		11/25/24 10:26	11/25/24 16:25	
CBDVA	< LOQ	0.0168	%		11/25/24 10:26	11/25/24 16:25	
CBN	< LOQ	0.0306	%		11/25/24 10:26	11/25/24 16:25	
CBG	< LOQ	0.0080	%		11/25/24 10:26	11/25/24 16:25	
CBGA	< LOQ	0.0080	%		11/25/24 10:26	11/25/24 16:25	
CBC	< LOQ	0.0092	%		11/25/24 10:26	11/25/24 16:25	

Reference(2448007-SRM1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
THCA	103	0.0002	%	90-110	11/25/24 10:26	11/25/24 16:48	
delta 9-THC	102	0.0002	%	90-110	11/25/24 10:26	11/25/24 16:48	
delta 8-THC	102	0.0463	%	90-110	11/25/24 10:26	11/25/24 16:48	
CBD	100	0.0002	%	90-110	11/25/24 10:26	11/25/24 16:48	
CBDA	99.0	0.0002	%	90-110	11/25/24 10:26	11/25/24 16:48	

Pesticide Analysis

Batch: 2447083 - 202

Blank(2447083-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Abamectin	< LOQ	0.10	ppm		11/23/24 12:54	11/23/24 17:16	
Acephate	< LOQ	0.10	ppm		11/23/24 12:54	11/23/24 17:16	
Acequinocyl	< LOQ	0.48	ppm		11/23/24 12:54	11/23/24 17:16	
Acetamiprid	< LOQ	0.10	ppm		11/23/24 12:54	11/23/24 17:16	
Aldicarb	< LOQ	0.10	ppm		11/23/24 12:54	11/23/24 17:16	
Azoxystrobin	< LOQ	0.10	ppm		11/23/24 12:54	11/23/24 17:16	
Bifenazate	< LOQ	0.10	ppm		11/23/24 12:54	11/23/24 17:16	
Bifenthrin	< LOQ	0.10	ppm		11/23/24 12:54	11/23/24 17:16	
Boscalid	< LOQ	0.10	ppm		11/23/24 12:54	11/25/24 09:42	
Carbaryl	< LOQ	0.10	ppm		11/23/24 12:54	11/23/24 17:16	
Carbofuran	< LOQ	0.10	ppm		11/23/24 12:54	11/23/24 17:16	
Chlorantraniliprole	< LOQ	0.10	ppm		11/23/24 12:54	11/23/24 17:16	
Chlorfenapyr	< LOQ	0.10	ppm		11/23/24 12:54	11/25/24 09:42	



Quality Control Pesticide Analysis (Continued)

Batch: 2447083 - 202 (Continued)

Blank(2447083-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Chlorpyrifos	< LOQ	0.10	ppm		11/23/24 12:54	11/23/24 17:16	
Clofentezine	< LOQ	0.10	ppm		11/23/24 12:54	11/23/24 17:16	
Daminozide	< LOQ	0.48	ppm		11/23/24 12:54	11/23/24 17:16	
Cyfluthrin	< LOQ	0.48	ppm		11/23/24 12:54	11/25/24 09:42	
Diazinon	< LOQ	0.10	ppm		11/23/24 12:54	11/23/24 17:16	
Cypermethrin	< LOQ	0.48	ppm		11/23/24 12:54	11/25/24 09:42	
Dimethoate	< LOQ	0.10	ppm		11/23/24 12:54	11/23/24 17:16	
Ethoprophos	< LOQ	0.10	ppm		11/23/24 12:54	11/23/24 17:16	
Etofenprox	< LOQ	0.10	ppm		11/23/24 12:54	11/23/24 17:16	
Etoxazole	< LOQ	0.10	ppm		11/23/24 12:54	11/23/24 17:16	
Fenoxycarb	< LOQ	0.10	ppm		11/23/24 12:54	11/23/24 17:16	
Fenpyroximate	< LOQ	0.20	ppm		11/23/24 12:54	11/23/24 17:16	
Flonicamid	< LOQ	0.10	ppm		11/23/24 12:54	11/23/24 17:16	
Hexythiazox	< LOQ	0.10	ppm		11/23/24 12:54	11/23/24 17:16	
Imazalil	< LOQ	0.10	ppm		11/23/24 12:54	11/23/24 17:16	
Fipronil	< LOQ	0.10	ppm		11/23/24 12:54	11/25/24 09:42	
Imidacloprid	< LOQ	0.10	ppm		11/23/24 12:54	11/23/24 17:16	
Fludioxonil	< LOQ	0.10	ppm		11/23/24 12:54	11/25/24 09:42	
Metalaxyl	< LOQ	0.10	ppm		11/23/24 12:54	11/23/24 17:16	
Methiocarb	< LOQ	0.10	ppm		11/23/24 12:54	11/23/24 17:16	
Methomyl	< LOQ	0.10	ppm		11/23/24 12:54	11/23/24 17:16	
Myclobutanil	< LOQ	0.10	ppm		11/23/24 12:54	11/23/24 17:16	
Kresoxim-methyl	< LOQ	0.10	ppm		11/23/24 12:54	11/25/24 09:42	
Naled	< LOQ	0.10	ppm		11/23/24 12:54	11/23/24 17:16	
Malathion	< LOQ	0.10	ppm		11/23/24 12:54	11/25/24 09:42	
Oxamyl	< LOQ	0.10	ppm		11/23/24 12:54	11/23/24 17:16	
Paclobutrazol	< LOQ	0.10	ppm		11/23/24 12:54	11/23/24 17:16	
Permethrins	< LOQ	0.10	ppm		11/23/24 12:54	11/23/24 17:16	
Methyl parathion	< LOQ	0.10	ppm		11/23/24 12:54	11/25/24 09:42	
MGK-264	< LOQ	0.10	ppm		11/23/24 12:54	11/25/24 09:42	
Phosmet	< LOQ	0.10	ppm		11/23/24 12:54	11/23/24 17:16	
Piperonyl butoxide	< LOQ	0.90	ppm		11/23/24 12:54	11/23/24 17:16	
Prallethrin	< LOQ	0.10	ppm		11/23/24 12:54	11/23/24 17:16	
Propoxur	< LOQ	0.10	ppm		11/23/24 12:54	11/23/24 17:16	
Pyrethrins	< LOQ	0.48	ppm		11/23/24 12:54	11/23/24 17:16	
Pyridaben	< LOQ	0.10	ppm		11/23/24 12:54	11/23/24 17:16	
Propiconazole	< LOQ	0.10	ppm		11/23/24 12:54	11/25/24 09:42	
Spinosad	< LOQ	0.10	ppm		11/23/24 12:54	11/23/24 17:16	



Quality Control Pesticide Analysis (Continued)

Batch: 2447083 - 202 (Continued)

Blank(2447083-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Spiromesifen	< LOQ	0.10	ppm		11/23/24 12:54	11/23/24 17:16	
Spirotetramat	< LOQ	0.10	ppm		11/23/24 12:54	11/23/24 17:16	
Spiroxamine	< LOQ	0.10	ppm		11/23/24 12:54	11/23/24 17:16	
Tebuconazole	< LOQ	0.10	ppm		11/23/24 12:54	11/23/24 17:16	
Thiacloprid	< LOQ	0.10	ppm		11/23/24 12:54	11/23/24 17:16	
Thiamethoxam	< LOQ	0.10	ppm		11/23/24 12:54	11/23/24 17:16	
Trifloxystrobin	< LOQ	0.10	ppm		11/23/24 12:54	11/23/24 17:16	
DDVP (Dichlorvos)	< LOQ	0.10	ppm		11/23/24 12:54	11/23/24 17:16	

LCS(2447083-BS1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Abamectin	113	0.10	ppm	50-150	11/23/24 12:54	11/23/24 17:42	
Acephate	95.0	0.10	ppm	60-120	11/23/24 12:54	11/23/24 17:42	
Acequinocyl	149	0.48	ppm	40-160	11/23/24 12:54	11/23/24 17:42	
Acetamiprid	111	0.10	ppm	60-120	11/23/24 12:54	11/23/24 17:42	
Aldicarb	305	0.10	ppm	60-120	11/23/24 12:54	11/23/24 17:42	BSH
Azoxystrobin	110	0.10	ppm	60-120	11/23/24 12:54	11/23/24 17:42	
Bifenazate	160	0.10	ppm	60-120	11/23/24 12:54	11/23/24 17:42	BSH
Bifenthrin	97.9	0.10	ppm	50-150	11/23/24 12:54	11/23/24 17:42	
Boscalid	63.2	0.10	ppm	60-120	11/23/24 12:54	11/25/24 10:04	
Carbaryl	99.0	0.10	ppm	60-120	11/23/24 12:54	11/23/24 17:42	
Carbofuran	109	0.10	ppm	60-120	11/23/24 12:54	11/23/24 17:42	
Chlorantraniliprole	118	0.10	ppm	60-120	11/23/24 12:54	11/23/24 17:42	
Chlorfenapyr	121	0.10	ppm	60-120	11/23/24 12:54	11/25/24 10:04	BSH
Chlorpyrifos	101	0.10	ppm	60-120	11/23/24 12:54	11/23/24 17:42	
Clofentezine	139	0.10	ppm	60-120	11/23/24 12:54	11/23/24 17:42	BSH
Daminozide	146	0.48	ppm	60-120	11/23/24 12:54	11/23/24 17:42	BSH
Cyfluthrin	79.0	0.48	ppm	50-150	11/23/24 12:54	11/25/24 10:04	
Diazinon	106	0.10	ppm	60-120	11/23/24 12:54	11/23/24 17:42	
Cypermethrin	83.3	0.48	ppm	50-150	11/23/24 12:54	11/25/24 10:04	
Dimethoate	137	0.10	ppm	60-120	11/23/24 12:54	11/23/24 17:42	BSH
Ethoprophos	111	0.10	ppm	60-120	11/23/24 12:54	11/23/24 17:42	
Etofenprox	95.1	0.10	ppm	50-150	11/23/24 12:54	11/23/24 17:42	
Etoxazole	108	0.10	ppm	60-120	11/23/24 12:54	11/23/24 17:42	
Fenoxycarb	130	0.10	ppm	60-120	11/23/24 12:54	11/23/24 17:42	BSH
Fenpyroximate	98.7	0.20	ppm	60-120	11/23/24 12:54	11/23/24 17:42	
Flonicamid	139	0.10	ppm	60-120	11/23/24 12:54	11/23/24 17:42	BSH
Hexythiazox	89.1	0.10	ppm	60-120	11/23/24 12:54	11/23/24 17:42	
Imazalil	117	0.10	ppm	60-120	11/23/24 12:54	11/23/24 17:42	



Quality Control Pesticide Analysis (Continued)

Batch: 2447083 - 202 (Continued)

LCS(2447083-BS1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Fipronil	104	0.10	ppm	60-120	11/23/24 12:54	11/25/24 10:04	
Imidacloprid	102	0.10	ppm	60-120	11/23/24 12:54	11/23/24 17:42	
Fludioxonil	81.1	0.10	ppm	50-150	11/23/24 12:54	11/25/24 10:04	
Metalaxyl	109	0.10	ppm	60-120	11/23/24 12:54	11/23/24 17:42	
Methiocarb	109	0.10	ppm	60-120	11/23/24 12:54	11/23/24 17:42	
Methomyl	199	0.10	ppm	60-120	11/23/24 12:54	11/23/24 17:42	BSH
Myclobutanil	133	0.10	ppm	60-120	11/23/24 12:54	11/23/24 17:42	BSH
Kresoxim-methyl	101	0.10	ppm	60-120	11/23/24 12:54	11/25/24 10:04	
Naled	141	0.10	ppm	50-150	11/23/24 12:54	11/23/24 17:42	
Malathion	98.3	0.10	ppm	60-120	11/23/24 12:54	11/25/24 10:04	
Oxamyl	170	0.10	ppm	60-120	11/23/24 12:54	11/23/24 17:42	BSH
Paclobutrazol	135	0.10	ppm	60-120	11/23/24 12:54	11/23/24 17:42	BSH
Permethrins	108	0.10	ppm	50-150	11/23/24 12:54	11/23/24 17:42	
Methyl parathion	85.9	0.10	ppm	50-150	11/23/24 12:54	11/25/24 10:04	
MGK-264	97.5	0.10	ppm	50-150	11/23/24 12:54	11/25/24 10:04	
Phosmet	110	0.10	ppm	50-150	11/23/24 12:54	11/23/24 17:42	
Piperonyl butoxide	158	0.90	ppm	60-120	11/23/24 12:54	11/23/24 17:42	BSH
Prallethrin	181	0.10	ppm	60-120	11/23/24 12:54	11/23/24 17:42	BSH
Propoxur	124	0.10	ppm	60-120	11/23/24 12:54	11/23/24 17:42	BSH
Pyrethrins	161	0.48	ppm	60-120	11/23/24 12:54	11/23/24 17:42	BSH
Pyridaben	99.2	0.10	ppm	50-150	11/23/24 12:54	11/23/24 17:42	
Propiconazole	108	0.10	ppm	60-120	11/23/24 12:54	11/25/24 10:04	
Spinosad	76.0	0.10	ppm	50-150	11/23/24 12:54	11/23/24 17:42	
Spiromesifen	160	0.10	ppm	60-120	11/23/24 12:54	11/23/24 17:42	BSH
Spirotetramat	112	0.10	ppm	60-120	11/23/24 12:54	11/23/24 17:42	
Spiroxamine	110	0.10	ppm	60-120	11/23/24 12:54	11/23/24 17:42	
Tebuconazole	99.4	0.10	ppm	60-120	11/23/24 12:54	11/23/24 17:42	
Thiacloprid	113	0.10	ppm	60-120	11/23/24 12:54	11/23/24 17:42	
Thiamethoxam	136	0.10	ppm	60-120	11/23/24 12:54	11/23/24 17:42	BSH
Trifloxystrobin	126	0.10	ppm	60-120	11/23/24 12:54	11/23/24 17:42	BSH
DDVP (Dichlorvos)	106	0.10	ppm	60-120	11/23/24 12:54	11/23/24 17:42	

Solvent Analysis

Batch: 2448019 - 205

Blank(2448019-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Acetone	< LOQ	1000	ppm		11/26/24 10:56	11/27/24 09:07	
Acetonitrile	< LOQ	50.00	ppm		11/26/24 10:56	11/27/24 09:07	



Nolan Mundie
Lab Director - 11/27/2024

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Quality Control Solvent Analysis (Continued)

Batch: 2448019 - 205 (Continued)

Blank(2448019-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Benzene	< LOQ	1.000	ppm		11/26/24 10:56	11/27/24 09:07	
Butanes	< LOQ	1000	ppm		11/26/24 10:56	11/27/24 09:07	
2-Butanol	< LOQ	1000	ppm		11/26/24 10:56	11/27/24 09:07	
Cumene	< LOQ	35.00	ppm		11/26/24 10:56	11/27/24 09:07	
Cyclohexane	< LOQ	50.00	ppm		11/26/24 10:56	11/27/24 09:07	
Dichloromethane	< LOQ	50.00	ppm		11/26/24 10:56	11/27/24 09:07	
1,4-Dioxane	< LOQ	50.00	ppm		11/26/24 10:56	11/27/24 09:07	
Ethanol	< LOQ	50.00	ppm		11/26/24 10:56	11/27/24 09:07	
2-Ethoxyethanol	< LOQ	80.00	ppm		11/26/24 10:56	11/27/24 09:07	
Ethyl acetate	< LOQ	1000	ppm		11/26/24 10:56	11/27/24 09:07	
Ethyl benzene	< LOQ	35.00	ppm		11/26/24 10:56	11/27/24 09:07	
Ethylene glycol	< LOQ	310.0	ppm		11/26/24 10:56	11/27/24 09:07	
Ethylene oxide	< LOQ	25.00	ppm		11/26/24 10:56	11/27/24 09:07	
Ethyl ether	< LOQ	1000	ppm		11/26/24 10:56	11/27/24 09:07	
Heptane	< LOQ	1000	ppm		11/26/24 10:56	11/27/24 09:07	
Hexanes	< LOQ	50.00	ppm		11/26/24 10:56	11/27/24 09:07	
Isopropyl acetate	< LOQ	1000	ppm		11/26/24 10:56	11/27/24 09:07	
Methanol	< LOQ	1000	ppm		11/26/24 10:56	11/27/24 09:07	
Pentanes	< LOQ	1000	ppm		11/26/24 10:56	11/27/24 09:07	
Propane	< LOQ	1000	ppm		11/26/24 10:56	11/27/24 09:07	
2-Propanol (IPA)	< LOQ	1000	ppm		11/26/24 10:56	11/27/24 09:07	
Tetrahydrofuran	< LOQ	50.00	ppm		11/26/24 10:56	11/27/24 09:07	
Toluene	< LOQ	50.00	ppm		11/26/24 10:56	11/27/24 09:07	
Xylenes	< LOQ	50.00	ppm		11/26/24 10:56	11/27/24 09:07	

LCS(2448019-BS1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Acetone	83.0	1000	ppm	60-120	11/26/24 10:56	11/26/24 16:59	
Acetonitrile	83.7	50.00	ppm	60-120	11/26/24 10:56	11/26/24 16:59	
Benzene	73.5	1.000	ppm	60-120	11/26/24 10:56	11/26/24 16:59	
Butanes	69.3	1000	ppm	60-120	11/26/24 10:56	11/26/24 16:59	
2-Butanol	89.0	1000	ppm	60-120	11/26/24 10:56	11/26/24 16:59	
Cumene	75.5	35.00	ppm	60-120	11/26/24 10:56	11/26/24 16:59	
Cyclohexane	86.0	50.00	ppm	60-120	11/26/24 10:56	11/26/24 16:59	
Dichloromethane	83.0	50.00	ppm	60-120	11/26/24 10:56	11/26/24 16:59	
1,4-Dioxane	85.9	50.00	ppm	60-120	11/26/24 10:56	11/26/24 16:59	
2-Ethoxyethanol	106	80.00	ppm	60-120	11/26/24 10:56	11/26/24 16:59	
Ethyl acetate	85.1	1000	ppm	60-120	11/26/24 10:56	11/26/24 16:59	
Ethyl benzene	87.1	35.00	ppm	60-120	11/26/24 10:56	11/26/24 16:59	



Nolan Mundie
Lab Director - 11/27/2024

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Quality Control Solvent Analysis (Continued)

Batch: 2448019 - 205 (Continued)

LCS(2448019-BS1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Ethylene glycol	113	310.0	ppm	60-120	11/26/24 10:56	11/26/24 16:59	
Ethylene oxide	81.1	25.00	ppm	60-120	11/26/24 10:56	11/26/24 16:59	
Ethyl ether	82.1	1000	ppm	60-120	11/26/24 10:56	11/26/24 16:59	
Heptane	83.4	1000	ppm	60-120	11/26/24 10:56	11/26/24 16:59	
Hexanes	81.7	50.00	ppm	60-120	11/26/24 10:56	11/26/24 16:59	
Isopropyl acetate	85.3	1000	ppm	60-120	11/26/24 10:56	11/26/24 16:59	
Methanol	78.9	1000	ppm	60-120	11/26/24 10:56	11/26/24 16:59	
Pentanes	75.4	1000	ppm	60-120	11/26/24 10:56	11/26/24 16:59	
Propane	57.6	1000	ppm	60-120	11/26/24 10:56	11/26/24 16:59	BSL
2-Propanol (IPA)	86.4	1000	ppm	60-120	11/26/24 10:56	11/26/24 16:59	
Tetrahydrofuran	83.3	50.00	ppm	60-120	11/26/24 10:56	11/26/24 16:59	
Toluene	75.7	50.00	ppm	60-120	11/26/24 10:56	11/26/24 16:59	

Metals

Batch: 2447079 - 217

Blank(2447079-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Cadmium	< LOQ	0.08	ug/g		11/23/24 11:10	11/26/24 11:49	
Lead	< LOQ	0.08	ug/g		11/23/24 11:10	11/26/24 11:49	
Arsenic	< LOQ	0.08	ug/g		11/23/24 11:10	11/26/24 11:49	
Mercury	< LOQ	0.04	ug/g		11/23/24 11:10	11/26/24 11:49	

LCS(2447079-BS1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Cadmium	100	0.08	ug/g	80-115	11/23/24 11:10	11/26/24 11:50	
Lead	104	0.08	ug/g	80-115	11/23/24 11:10	11/26/24 11:50	
Arsenic	99.0	0.08	ug/g	80-115	11/23/24 11:10	11/26/24 11:50	
Mercury	90.5	0.04	ug/g	80-115	11/23/24 11:10	11/26/24 11:50	



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: 24-013232/D001.R000
Report Date: 12/02/2024
ORELAP#: OR100028
Purchase Order:
Received: 11/22/24 09:47

Customer: GVB Oregon
Product identity: CBN Iso GVL-TST874
Client/Metric ID: .
Laboratory ID: 24-013232-0001

Summary

Microbiology:

Less than LOQ for all analytes.



Customer: GVB Oregon
United States of America (USA)
Product identity: CBN Iso GVL-TST874
Client/Metric ID: .
Sample Date:
Laboratory ID: 24-013232-0001
Evidence of Cooling: No
Temp: 21.1 °C

Sample Results

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2409084	11/25/24 AOAC 991.14 (Petrifilm)		
Total Coliforms	< LOQ		cfu/g	10	2409084	11/25/24 AOAC 991.14 (Petrifilm)		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2409085	11/26/24 AOAC 2014.05 (RAPID)		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2409085	11/26/24 AOAC 2014.05 (RAPID)		



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Portland, OR 97230
503-254-1794



Report Number: 24-013232/D001.R000
Report Date: 12/02/2024
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Received: 11/22/24 09:47

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



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Report Number: 24-013232/D001.R000
Report Date: 12/02/2024
ORELAP#: OR100028
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Received: 11/22/24 09:47



**Hemp & Cannabis
Chain of Custody**

GVB-Oregon-1732140151

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>		Project Details Turnaround Time: <u>5 Business Days</u> Reg. For Micro Testing Standard 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>		Testing M075 - E. coli/Coliform Count (EC) Petrifilm M283 - RAPID Yeast and Mold Count (RYM) Petrifilm		
#	Sample Name	Material	Amount Provided	Reporting Unit		
1	CBN Iso GVL-TST874	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: 24-013232/D001.R000
Report Date: 12/02/2024
ORELAP#: OR100028
Purchase Order:
Received: 11/22/24 09:47





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.