



CBN Iso GVL-TST758

Sample ID: G4A0074-01 Matrix: Hemp Extracts & Concentrates

Test ID: 5026458

Source ID:

Date Sampled: 01/09/24 Date Accepted: 01/09/24

Harvest/Prod. Date: 01.05.2024

GVB Oregon
info@gvbbiopharma.com

Results at a Glance

Total THC : <LOQ (0.0005%) %

Total CBD : <LOQ (0.0431%) %

CBN : 99.69 % PASS

Pesticides : PASS

Residual Solvent Analysis : PASS

Metals : PASS



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LABORATORY

Eric Wendt
Chief Science Officer - 1/10/2024



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Harvest/Prod. Date: 01.05.2024

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info@gvbbiopharma.com

Potency Analysis

Date/Time Extracted: 01/09/24 12:38

Analysis Method/SOP: 215

Batch Identification: 2402019

Cannabinoids	LOQ (%)	% by Wt.	mg/g	Cannabinoids Profile
Total THC	0.0005	< LOQ	< LOQ	<p>Legend: CBN 99.7, Total: 99.7</p>
Total CBD	0.0431	< LOQ	< LOQ	
THCA	0.0005	< LOQ	< LOQ	
delta 9-THC	0.0005	< LOQ	< LOQ	
delta 8-THC	0.0934	< LOQ	< LOQ	
THCV	0.1052	< LOQ	< LOQ	
THCVA	0.0392	< LOQ	< LOQ	
CBD	0.0005	< LOQ	< LOQ	
CBDA	0.0005	< LOQ	< LOQ	
CBDV	0.1040	< LOQ	< LOQ	
CBDVA	0.0341	< LOQ	< LOQ	
CBN	0.0622	99.69	996.9	
CBG	0.0164	< LOQ	< LOQ	
CBGA	0.0164	< LOQ	< LOQ	
CBC	0.0186	< LOQ	< LOQ	
Total Cannabinoids		99.69	996.9	

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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Harvest/Prod. Date: 01.05.2024

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Pesticide Analysis in ppm

Date/Time Extracted: 01/09/24 13:29

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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Harvest/Prod. Date: 01.05.2024

GVB Oregon
info@gvbpharma.com

Residual Solvents

Date/Time Extracted: 01/09/24 12:45

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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Harvest/Prod. Date: 01.05.2024

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Metals by ICPMS

Date/Time Extracted: 01/10/24 11:23

Analysis Method/SOP: Metals

Analyte	Result	Action Level	LOD	LOQ	Units
Arsenic	< LOQ	0.2	0.03	0.08	ug/g
Cadmium	< LOQ	0.2	0.02	0.08	ug/g
Lead	< LOQ	0.5	0.01	0.08	ug/g
Mercury	< LOQ	0.1	0.01	0.04	ug/g

<LOQ - Results below the Limit of Quantitation
Results above the Action Level fail state testing requirements and will be highlighted **Red**.



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Quality Control Potency

Batch: 2402019 - 215-Concentrates

Blank(2402019-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
THCA	< LOQ	0.0005	%		01/09/24 12:38	01/09/24 17:00	
delta 9-THC	< LOQ	0.0005	%		01/09/24 12:38	01/09/24 17:00	
delta 8-THC	< LOQ	0.0934	%		01/09/24 12:38	01/09/24 17:00	
THCV	< LOQ	0.1052	%		01/09/24 12:38	01/09/24 17:00	
THCVA	< LOQ	0.0392	%		01/09/24 12:38	01/09/24 17:00	
CBD	< LOQ	0.0005	%		01/09/24 12:38	01/09/24 17:00	
CBDA	< LOQ	0.0005	%		01/09/24 12:38	01/09/24 17:00	
CBDV	< LOQ	0.1040	%		01/09/24 12:38	01/09/24 17:00	
CBDVA	< LOQ	0.0341	%		01/09/24 12:38	01/09/24 17:00	
CBN	< LOQ	0.0622	%		01/09/24 12:38	01/09/24 17:00	
CBG	< LOQ	0.0164	%		01/09/24 12:38	01/09/24 17:00	
CBGA	< LOQ	0.0164	%		01/09/24 12:38	01/09/24 17:00	
CBC	< LOQ	0.0186	%		01/09/24 12:38	01/09/24 17:00	

Reference(2402019-SRM1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
THCA	93.6	0.0002	%	90-110	01/09/24 12:38	01/09/24 17:23	
delta 9-THC	100	0.0002	%	90-110	01/09/24 12:38	01/09/24 17:23	
delta 8-THC	101	0.0449	%	90-110	01/09/24 12:38	01/09/24 17:23	
CBD	96.8	0.0002	%	90-110	01/09/24 12:38	01/09/24 17:23	
CBDA	94.8	0.0002	%	90-110	01/09/24 12:38	01/09/24 17:23	

Pesticide Analysis

Batch: 2402022 - 202

Blank(2402022-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Abamectin	< LOQ	0.1	ppm		01/09/24 13:29	01/09/24 16:57	
Acephate	< LOQ	0.1	ppm		01/09/24 13:29	01/09/24 16:57	
Acequinocyl	< LOQ	0.5	ppm		01/09/24 13:29	01/09/24 16:57	
Acetamiprid	< LOQ	0.1	ppm		01/09/24 13:29	01/09/24 16:57	
Aldicarb	< LOQ	0.1	ppm		01/09/24 13:29	01/09/24 16:57	
Azoxystrobin	< LOQ	0.1	ppm		01/09/24 13:29	01/09/24 16:57	
Bifenazate	< LOQ	0.1	ppm		01/09/24 13:29	01/09/24 16:57	
Bifenthrin	< LOQ	0.1	ppm		01/09/24 13:29	01/09/24 16:57	
Boscalid	< LOQ	0.1	ppm		01/09/24 13:29	01/09/24 16:57	
Carbaryl	< LOQ	0.1	ppm		01/09/24 13:29	01/09/24 16:57	
Carbofuran	< LOQ	0.1	ppm		01/09/24 13:29	01/09/24 16:57	
Chlorantraniliprole	< LOQ	0.1	ppm		01/09/24 13:29	01/09/24 16:57	
Chlorfenapyr	< LOQ	0.1	ppm		01/09/24 13:29	01/09/24 16:23	



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Quality Control Pesticide Analysis (Continued)

Batch: 2402022 - 202 (Continued)

Blank(2402022-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Chlorpyrifos	< LOQ	0.1	ppm		01/09/24 13:29	01/09/24 16:57	
Clofentezine	< LOQ	0.1	ppm		01/09/24 13:29	01/09/24 16:57	
Daminozide	< LOQ	0.5	ppm		01/09/24 13:29	01/09/24 16:57	
Cyfluthrin	< LOQ	0.5	ppm		01/09/24 13:29	01/09/24 16:23	
Diazinon	< LOQ	0.1	ppm		01/09/24 13:29	01/09/24 16:57	
Cypermethrin	< LOQ	0.5	ppm		01/09/24 13:29	01/09/24 16:23	
Dimethoate	< LOQ	0.1	ppm		01/09/24 13:29	01/09/24 16:57	
Ethoprophos	< LOQ	0.1	ppm		01/09/24 13:29	01/09/24 16:57	
Etofenprox	< LOQ	0.1	ppm		01/09/24 13:29	01/09/24 16:57	
Etoxazole	< LOQ	0.1	ppm		01/09/24 13:29	01/09/24 16:57	
Fenoxycarb	< LOQ	0.1	ppm		01/09/24 13:29	01/09/24 16:57	
Fenpyroximate	< LOQ	0.1	ppm		01/09/24 13:29	01/09/24 16:57	
Fonicamid	< LOQ	0.1	ppm		01/09/24 13:29	01/09/24 16:57	
Hexythiazox	< LOQ	0.1	ppm		01/09/24 13:29	01/09/24 16:57	
Imazalil	< LOQ	0.1	ppm		01/09/24 13:29	01/09/24 16:57	
Fipronil	< LOQ	0.1	ppm		01/09/24 13:29	01/09/24 16:23	
Imidacloprid	< LOQ	0.1	ppm		01/09/24 13:29	01/09/24 16:57	
Fludioxonil	< LOQ	0.1	ppm		01/09/24 13:29	01/09/24 16:23	
Metalaxyl	< LOQ	0.1	ppm		01/09/24 13:29	01/09/24 16:57	
Methiocarb	< LOQ	0.1	ppm		01/09/24 13:29	01/09/24 16:57	
Methomyl	< LOQ	0.1	ppm		01/09/24 13:29	01/09/24 16:57	
Myclobutanil	< LOQ	0.1	ppm		01/09/24 13:29	01/09/24 16:57	
Kresoxim-methyl	< LOQ	0.1	ppm		01/09/24 13:29	01/09/24 16:23	
Naled	< LOQ	0.1	ppm		01/09/24 13:29	01/09/24 16:57	
Malathion	< LOQ	0.1	ppm		01/09/24 13:29	01/09/24 16:23	
Oxamyl	< LOQ	0.1	ppm		01/09/24 13:29	01/09/24 16:57	
Paclobutrazol	< LOQ	0.1	ppm		01/09/24 13:29	01/09/24 16:57	
Permethrins	< LOQ	0.1	ppm		01/09/24 13:29	01/09/24 16:57	
Methyl parathion	< LOQ	0.1	ppm		01/09/24 13:29	01/09/24 16:23	
MGK-264	< LOQ	0.1	ppm		01/09/24 13:29	01/09/24 16:23	
Phosmet	< LOQ	0.1	ppm		01/09/24 13:29	01/09/24 16:57	
Piperonyl butoxide	< LOQ	0.9	ppm		01/09/24 13:29	01/09/24 16:57	
Prallethrin	< LOQ	0.1	ppm		01/09/24 13:29	01/09/24 16:57	
Propoxur	< LOQ	0.1	ppm		01/09/24 13:29	01/09/24 16:57	
Pyrethrins	< LOQ	0.5	ppm		01/09/24 13:29	01/09/24 16:57	
Pyridaben	< LOQ	0.1	ppm		01/09/24 13:29	01/09/24 16:57	
Propiconazole	< LOQ	0.1	ppm		01/09/24 13:29	01/09/24 16:23	
Spinosad	< LOQ	0.1	ppm		01/09/24 13:29	01/09/24 16:57	



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Quality Control Pesticide Analysis (Continued)

Batch: 2402022 - 202 (Continued)

Blank(2402022-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Spiromesifen	< LOQ	0.1	ppm		01/09/24 13:29	01/09/24 16:57	
Spirotetramat	< LOQ	0.1	ppm		01/09/24 13:29	01/09/24 16:57	
Spiroxamine	< LOQ	0.1	ppm		01/09/24 13:29	01/09/24 16:57	
Tebuconazole	< LOQ	0.1	ppm		01/09/24 13:29	01/09/24 16:57	
Thiacloprid	< LOQ	0.1	ppm		01/09/24 13:29	01/09/24 16:57	
Thiamethoxam	< LOQ	0.1	ppm		01/09/24 13:29	01/09/24 16:57	
Trifloxystrobin	< LOQ	0.1	ppm		01/09/24 13:29	01/09/24 16:57	
DDVP (Dichlorvos)	< LOQ	0.1	ppm		01/09/24 13:29	01/09/24 16:57	

LCS(2402022-BS1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Abamectin	99.8	0.1	ppm	50-150	01/09/24 13:29	01/09/24 17:23	
Acephate	113	0.1	ppm	60-120	01/09/24 13:29	01/09/24 17:23	
Acequinocyl	103	0.5	ppm	40-160	01/09/24 13:29	01/09/24 17:23	
Acetamiprid	97.2	0.1	ppm	60-120	01/09/24 13:29	01/09/24 17:23	
Aldicarb	96.2	0.1	ppm	60-120	01/09/24 13:29	01/09/24 17:23	
Azoxystrobin	98.4	0.1	ppm	60-120	01/09/24 13:29	01/09/24 17:23	
Bifenazate	99.2	0.1	ppm	60-120	01/09/24 13:29	01/09/24 17:23	
Bifenthrin	119	0.1	ppm	50-150	01/09/24 13:29	01/09/24 17:23	
Boscalid	99.4	0.1	ppm	60-120	01/09/24 13:29	01/09/24 17:23	
Carbaryl	103	0.1	ppm	60-120	01/09/24 13:29	01/09/24 17:23	
Carbofuran	94.4	0.1	ppm	60-120	01/09/24 13:29	01/09/24 17:23	
Chlorantraniliprole	78.1	0.1	ppm	60-120	01/09/24 13:29	01/09/24 17:23	
Chlorfenapyr	161	0.1	ppm	60-120	01/09/24 13:29	01/09/24 16:45	BSH
Chlorpyrifos	111	0.1	ppm	60-120	01/09/24 13:29	01/09/24 17:23	
Clofentezine	101	0.1	ppm	60-120	01/09/24 13:29	01/09/24 17:23	
Daminozide	793	0.5	ppm	60-120	01/09/24 13:29	01/09/24 17:23	BSH
Cyfluthrin	90.7	0.5	ppm	50-150	01/09/24 13:29	01/09/24 16:45	
Diazinon	104	0.1	ppm	60-120	01/09/24 13:29	01/09/24 17:23	
Cypermethrin	78.4	0.5	ppm	50-150	01/09/24 13:29	01/09/24 16:45	
Dimethoate	105	0.1	ppm	60-120	01/09/24 13:29	01/09/24 17:23	
Ethoprophos	108	0.1	ppm	60-120	01/09/24 13:29	01/09/24 17:23	
Etofenprox	99.9	0.1	ppm	50-150	01/09/24 13:29	01/09/24 17:23	
Etoxazole	95.5	0.1	ppm	60-120	01/09/24 13:29	01/09/24 17:23	
Fenoxycarb	93.7	0.1	ppm	60-120	01/09/24 13:29	01/09/24 17:23	
Fenpyroximate	92.1	0.1	ppm	60-120	01/09/24 13:29	01/09/24 17:23	
Flonicamid	108	0.1	ppm	60-120	01/09/24 13:29	01/09/24 17:23	
Hexythiazox	98.1	0.1	ppm	60-120	01/09/24 13:29	01/09/24 17:23	
Imazalil	91.6	0.1	ppm	60-120	01/09/24 13:29	01/09/24 17:23	



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Chief Science Officer - 1/10/2024



Quality Control Pesticide Analysis (Continued)

Batch: 2402022 - 202 (Continued)

LCS(2402022-BS1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Fipronil	98.0	0.1	ppm	60-120	01/09/24 13:29	01/09/24 16:45	
Imidacloprid	97.3	0.1	ppm	60-120	01/09/24 13:29	01/09/24 17:23	
Fludioxonil	76.7	0.1	ppm	50-150	01/09/24 13:29	01/09/24 16:45	
Metalaxyl	97.6	0.1	ppm	60-120	01/09/24 13:29	01/09/24 17:23	
Methiocarb	106	0.1	ppm	60-120	01/09/24 13:29	01/09/24 17:23	
Methomyl	98.5	0.1	ppm	60-120	01/09/24 13:29	01/09/24 17:23	
Myclobutanil	95.9	0.1	ppm	60-120	01/09/24 13:29	01/09/24 17:23	
Kresoxim-methyl	82.7	0.1	ppm	60-120	01/09/24 13:29	01/09/24 16:45	
Naled	112	0.1	ppm	50-150	01/09/24 13:29	01/09/24 17:23	
Malathion	100	0.1	ppm	60-120	01/09/24 13:29	01/09/24 16:45	
Oxamyl	97.2	0.1	ppm	60-120	01/09/24 13:29	01/09/24 17:23	
Paclobutrazol	98.7	0.1	ppm	60-120	01/09/24 13:29	01/09/24 17:23	
Permethrins	109	0.1	ppm	50-150	01/09/24 13:29	01/09/24 17:23	
Methyl parathion	76.0	0.1	ppm	50-150	01/09/24 13:29	01/09/24 16:45	
MGK-264	99.9	0.1	ppm	50-150	01/09/24 13:29	01/09/24 16:45	
Phosmet	110	0.1	ppm	50-150	01/09/24 13:29	01/09/24 17:23	
Piperonyl butoxide	85.3	0.9	ppm	60-120	01/09/24 13:29	01/09/24 17:23	
Prallethrin	126	0.1	ppm	60-120	01/09/24 13:29	01/09/24 17:23	BSH
Propoxur	94.2	0.1	ppm	60-120	01/09/24 13:29	01/09/24 17:23	
Pyrethrins	95.9	0.5	ppm	60-120	01/09/24 13:29	01/09/24 17:23	
Pyridaben	98.4	0.1	ppm	50-150	01/09/24 13:29	01/09/24 17:23	
Propiconazole	94.4	0.1	ppm	60-120	01/09/24 13:29	01/09/24 16:45	
Spinosad	59.4	0.1	ppm	50-150	01/09/24 13:29	01/09/24 17:23	
Spiromesifen	96.8	0.1	ppm	60-120	01/09/24 13:29	01/09/24 17:23	
Spirotetramat	97.4	0.1	ppm	60-120	01/09/24 13:29	01/09/24 17:23	
Spiroxamine	79.4	0.1	ppm	60-120	01/09/24 13:29	01/09/24 17:23	
Tebuconazole	96.4	0.1	ppm	60-120	01/09/24 13:29	01/09/24 17:23	
Thiacloprid	101	0.1	ppm	60-120	01/09/24 13:29	01/09/24 17:23	
Thiamethoxam	99.9	0.1	ppm	60-120	01/09/24 13:29	01/09/24 17:23	
Trifloxystrobin	111	0.1	ppm	60-120	01/09/24 13:29	01/09/24 17:23	
DDVP (Dichlorvos)	117	0.1	ppm	60-120	01/09/24 13:29	01/09/24 17:23	

Solvent Analysis

Batch: 2402020 - 205

Blank(2402020-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Acetone	< LOQ	1000	ppm		01/09/24 12:45	01/10/24 09:25	
Acetonitrile	< LOQ	50.00	ppm		01/09/24 12:45	01/10/24 09:25	



Eric Wendt
Chief Science Officer - 1/10/2024



Quality Control Solvent Analysis (Continued)

Batch: 2402020 - 205 (Continued)

Blank(2402020-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Benzene	< LOQ	1.000	ppm		01/09/24 12:45	01/10/24 09:25	
Butanes	< LOQ	1000	ppm		01/09/24 12:45	01/10/24 09:25	
2-Butanol	< LOQ	1000	ppm		01/09/24 12:45	01/10/24 09:25	
Cumene	< LOQ	35.00	ppm		01/09/24 12:45	01/10/24 09:25	
Cyclohexane	< LOQ	50.00	ppm		01/09/24 12:45	01/10/24 09:25	
Dichloromethane	< LOQ	50.00	ppm		01/09/24 12:45	01/10/24 09:25	
1,4-Dioxane	< LOQ	50.00	ppm		01/09/24 12:45	01/10/24 09:25	
Ethanol	< LOQ	50.00	ppm		01/09/24 12:45	01/10/24 09:25	
2-Ethoxyethanol	< LOQ	80.00	ppm		01/09/24 12:45	01/10/24 09:25	
Ethyl acetate	< LOQ	1000	ppm		01/09/24 12:45	01/10/24 09:25	
Ethyl benzene	< LOQ	35.00	ppm		01/09/24 12:45	01/10/24 09:25	
Ethylene glycol	< LOQ	310.0	ppm		01/09/24 12:45	01/10/24 09:25	
Ethylene oxide	< LOQ	25.00	ppm		01/09/24 12:45	01/10/24 09:25	
Ethyl ether	< LOQ	1000	ppm		01/09/24 12:45	01/10/24 09:25	
Heptane	< LOQ	1000	ppm		01/09/24 12:45	01/10/24 09:25	
Hexanes	< LOQ	50.00	ppm		01/09/24 12:45	01/10/24 09:25	
Isopropyl acetate	< LOQ	1000	ppm		01/09/24 12:45	01/10/24 09:25	
Methanol	< LOQ	1000	ppm		01/09/24 12:45	01/10/24 09:25	
Pentanes	< LOQ	1000	ppm		01/09/24 12:45	01/10/24 09:25	
Propane	< LOQ	1000	ppm		01/09/24 12:45	01/10/24 09:25	
2-Propanol (IPA)	< LOQ	1000	ppm		01/09/24 12:45	01/10/24 09:25	
Tetrahydrofuran	< LOQ	50.00	ppm		01/09/24 12:45	01/10/24 09:25	
Toluene	< LOQ	50.00	ppm		01/09/24 12:45	01/10/24 09:25	
Xylenes	< LOQ	50.00	ppm		01/09/24 12:45	01/10/24 09:25	

LCS(2402020-BS1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Acetone	96.9	1000	ppm	60-120	01/09/24 12:45	01/09/24 15:50	
Acetonitrile	97.4	50.00	ppm	60-120	01/09/24 12:45	01/09/24 15:50	
Benzene	84.8	1.000	ppm	60-120	01/09/24 12:45	01/09/24 15:50	
Butanes	106	1000	ppm	60-120	01/09/24 12:45	01/09/24 15:50	
2-Butanol	98.7	1000	ppm	60-120	01/09/24 12:45	01/09/24 15:50	
Cumene	74.3	35.00	ppm	60-120	01/09/24 12:45	01/09/24 15:50	
Cyclohexane	100	50.00	ppm	60-120	01/09/24 12:45	01/09/24 15:50	
Dichloromethane	101	50.00	ppm	60-120	01/09/24 12:45	01/09/24 15:50	
1,4-Dioxane	91.2	50.00	ppm	60-120	01/09/24 12:45	01/09/24 15:50	
2-Ethoxyethanol	101	80.00	ppm	60-120	01/09/24 12:45	01/09/24 15:50	
Ethyl acetate	98.5	1000	ppm	60-120	01/09/24 12:45	01/09/24 15:50	
Ethyl benzene	78.7	35.00	ppm	60-120	01/09/24 12:45	01/09/24 15:50	



Eric Wendt
Chief Science Officer - 1/10/2024



Quality Control Solvent Analysis (Continued)

Batch: 2402020 - 205 (Continued)

LCS(2402020-BS1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Ethylene glycol	67.7	310.0	ppm	60-120	01/09/24 12:45	01/09/24 15:50	
Ethylene oxide	99.8	25.00	ppm	60-120	01/09/24 12:45	01/09/24 15:50	
Ethyl ether	101	1000	ppm	60-120	01/09/24 12:45	01/09/24 15:50	
Heptane	107	1000	ppm	60-120	01/09/24 12:45	01/09/24 15:50	
Hexanes	102	50.00	ppm	60-120	01/09/24 12:45	01/09/24 15:50	
Isopropyl acetate	99.5	1000	ppm	60-120	01/09/24 12:45	01/09/24 15:50	
Methanol	95.8	1000	ppm	60-120	01/09/24 12:45	01/09/24 15:50	
Pentanes	104	1000	ppm	60-120	01/09/24 12:45	01/09/24 15:50	
Propane	110	1000	ppm	60-120	01/09/24 12:45	01/09/24 15:50	
2-Propanol (IPA)	97.8	1000	ppm	60-120	01/09/24 12:45	01/09/24 15:50	
Tetrahydrofuran	99.0	50.00	ppm	60-120	01/09/24 12:45	01/09/24 15:50	
Toluene	82.3	50.00	ppm	60-120	01/09/24 12:45	01/09/24 15:50	

Metals

Batch: 2402038 - 217

Blank(2402038-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Cadmium	< LOQ	0.08	ug/g		01/10/24 11:23	01/10/24 15:50	
Lead	< LOQ	0.08	ug/g		01/10/24 11:23	01/10/24 15:50	
Arsenic	< LOQ	0.08	ug/g		01/10/24 11:23	01/10/24 15:50	
Mercury	< LOQ	0.04	ug/g		01/10/24 11:23	01/10/24 15:50	

LCS(2402038-BS1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Cadmium	101	0.08	ug/g	80-115	01/10/24 11:23	01/10/24 15:52	
Lead	103	0.08	ug/g	80-115	01/10/24 11:23	01/10/24 15:52	
Arsenic	99.4	0.08	ug/g	80-115	01/10/24 11:23	01/10/24 15:52	
Mercury	95.2	0.04	ug/g	80-115	01/10/24 11:23	01/10/24 15:52	



Eric Wendt
Chief Science Officer - 1/10/2024



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



Eric Wendt
Chief Science Officer - 1/10/2024

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: 24-000310/D002.R000
Report Date: 01/15/2024
ORELAP#: OR100028
Purchase Order:
Received: 01/09/24 11:04

Customer: GVB Oregon
Product identity: CBN Iso GVL-TST758
Client/Metric ID: .
Laboratory ID: 24-000310-0001

Summary

Microbiology:

Analyte	Result	Units
Yeast (RAPID Petrifilm)	10	cfu/g



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ORELAP#: OR100028
Purchase Order:
Received: 01/09/24 11:04

Customer: GVB Oregon
 United States of America (USA)
Product identity: CBN Iso GVL-TST758
Client/Metric ID: .
Sample Date:
Laboratory ID: 24-000310-0001
Evidence of Cooling: No
Temp: 13.2 °C
Relinquished by: shipping

Sample Results

Microbiology							
Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status Notes
E.coli	< LOQ		cfu/g	10	2400247	01/12/24 AOAC 991.14 (Petrifilm) ^P	
Total Coliforms	< LOQ		cfu/g	10	2400247	01/12/24 AOAC 991.14 (Petrifilm) ^P	
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2400248	01/13/24 AOAC 2014.05 (RAPID) ^P	
Yeast (RAPID Petrifilm)	10		cfu/g	10	2400248	01/13/24 AOAC 2014.05 (RAPID) ^P	



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Abbreviations

Limits: Action Levels per OAR-333-007-0400, OAR-333-007-0210, OAR-333-007-0220, CCR title 16-division 42. BCC-section 5723

Limit(s) of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

^p = ISO/IEC 17025:2017 accredited method.

Units of Measure

cfu/g = Colony forming units per gram

% wt = µg/g divided by 10,000

Approved Signatory

Derrick Tanner
General Manager



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



Report Number: 24-000310/D002.R000
Report Date: 01/15/2024
ORELAP#: OR100028
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Received: 01/09/24 11:04





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.