



CBD Iso GVL-TST727

Sample ID: G3I0146-02 Matrix: Hemp Extracts & Concentrates

Test ID: 5024064

Source ID:

Date Sampled: 09/12/23 Date Accepted: 09/12/23

Harvest/Prod. Date: 09.11.2023

GVB Oregon
info@gvbbiopharma.com

Results at a Glance

Total THC : <LOQ (0.0005%) %

Total CBD : 99.01 %

Pesticides : PASS

Residual Solvent Analysis : PASS

Metals : PASS



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Eric Wendt
Chief Science Officer - 9/17/2023



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GVB Oregon
info@gvbpharma.com

Potency Analysis by HPLC

Date/Time Extracted: 09/14/23 10:05

Analysis Method/SOP: 215

Batch Identification: 2337052

Cannabinoids	LOQ (%)	% by Wt.	mg/g	Cannabinoids Profile
Total THC	0.0005	< LOQ	< LOQ	<p>99.0</p>
Total CBD	0.0431	99.01	990.1	
THCA	0.0005	< LOQ	< LOQ	
delta 9-THC	0.0005	< LOQ	< LOQ	
delta 8-THC	0.0934	< LOQ	< LOQ	
THCV	0.1052	< LOQ	< LOQ	
THCVA	0.0392	< LOQ	< LOQ	
CBD	0.0005	99.01	990.1	
CBDA	0.0005	< LOQ	< LOQ	
CBDV	0.1040	< LOQ	< LOQ	
CBDVA	0.0341	< LOQ	< LOQ	
CBN	0.0622	< LOQ	< LOQ	
CBG	0.0164	< LOQ	< LOQ	
CBGA	0.0164	< LOQ	< LOQ	
CBC	0.0186	< LOQ	< LOQ	
Total Cannabinoids		99.01	990.1	

Total THC = delta 9-THC + (THCA * 0.877)

Total CBD = CBD + (CBDA * 0.877)

Total CBG = CBG + (CBGA * 0.878)

LOQ=Limit of Quantification, the lowest measurable concentration of an analyte.



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Harvest/Prod. Date: 09.11.2023

GVB Oregon
info@gvbbiopharma.com

Pesticide Analysis by LCMSMS and GCMSMS

Date/Time Extracted: 09/13/23 10:51

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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Date Sampled: 09/12/23 Date Accepted: 09/12/23

Harvest/Prod. Date: 09.11.2023

GVB Oregon
info@gvbbiopharma.com

Residual Solvents by GCMS-HS

Date/Time Extracted: 09/13/23 11:40

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: 09.11.2023

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Metals by ICPMS

Date/Time Extracted: 09/13/23 09:23

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: 2337052 - 215-Concentrates

Blank(2337052-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
THCA	< LOQ	0.0005	%		09/14/23 10:05	09/14/23 18:00	
delta 9-THC	< LOQ	0.0005	%		09/14/23 10:05	09/14/23 18:00	
delta 8-THC	< LOQ	0.0934	%		09/14/23 10:05	09/14/23 18:00	
THCV	< LOQ	0.1052	%		09/14/23 10:05	09/14/23 18:00	
THCVA	< LOQ	0.0392	%		09/14/23 10:05	09/14/23 18:00	
CBD	< LOQ	0.0005	%		09/14/23 10:05	09/14/23 18:00	
CBDA	< LOQ	0.0005	%		09/14/23 10:05	09/14/23 18:00	
CBDV	< LOQ	0.1040	%		09/14/23 10:05	09/14/23 18:00	
CBDVA	< LOQ	0.0341	%		09/14/23 10:05	09/14/23 18:00	
CBN	< LOQ	0.0622	%		09/14/23 10:05	09/14/23 18:00	
CBG	< LOQ	0.0164	%		09/14/23 10:05	09/14/23 18:00	
CBGA	< LOQ	0.0164	%		09/14/23 10:05	09/14/23 18:00	
CBC	< LOQ	0.0186	%		09/14/23 10:05	09/14/23 18:00	

Reference(2337052-SRM1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
THCA	106	0.00024	%	90-110	09/14/23 10:05	09/14/23 18:23	
delta 9-THC	90.3	0.00024	%	90-110	09/14/23 10:05	09/14/23 18:23	
delta 8-THC	95.5	0.0458	%	90-110	09/14/23 10:05	09/14/23 18:23	
CBD	94.0	0.00024	%	90-110	09/14/23 10:05	09/14/23 18:23	
CBDA	90.4	0.00024	%	90-110	09/14/23 10:05	09/14/23 18:23	

Pesticide Analysis

Batch: 2337034 - 202

Blank(2337034-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Abamectin	< LOQ	0.1	ppm		09/13/23 10:51	09/14/23 16:53	
Acephate	< LOQ	0.1	ppm		09/13/23 10:51	09/14/23 16:53	
Acequinocyl	< LOQ	0.5	ppm		09/13/23 10:51	09/14/23 16:53	
Acetamiprid	< LOQ	0.1	ppm		09/13/23 10:51	09/14/23 16:53	
Aldicarb	< LOQ	0.1	ppm		09/13/23 10:51	09/14/23 16:53	
Azoxystrobin	< LOQ	0.1	ppm		09/13/23 10:51	09/14/23 16:53	
Bifenazate	< LOQ	0.1	ppm		09/13/23 10:51	09/14/23 16:53	
Bifenthrin	< LOQ	0.1	ppm		09/13/23 10:51	09/14/23 16:53	
Boscalid	< LOQ	0.1	ppm		09/13/23 10:51	09/14/23 16:53	
Carbaryl	< LOQ	0.1	ppm		09/13/23 10:51	09/14/23 16:53	
Carbofuran	< LOQ	0.1	ppm		09/13/23 10:51	09/14/23 16:53	
Chlorantraniliprole	< LOQ	0.1	ppm		09/13/23 10:51	09/14/23 16:53	
Chlorfenapyr	< LOQ	0.1	ppm		09/13/23 10:51	09/13/23 17:02	



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Quality Control Pesticide Analysis (Continued)

Batch: 2337034 - 202 (Continued)

Blank(2337034-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Chlorpyrifos	< LOQ	0.1	ppm		09/13/23 10:51	09/14/23 16:53	
Clofentezine	< LOQ	0.1	ppm		09/13/23 10:51	09/14/23 16:53	
Daminozide	< LOQ	0.5	ppm		09/13/23 10:51	09/14/23 16:53	
Cyfluthrin	< LOQ	0.5	ppm		09/13/23 10:51	09/13/23 17:02	
Diazinon	< LOQ	0.1	ppm		09/13/23 10:51	09/14/23 16:53	
Cypermethrin	< LOQ	0.5	ppm		09/13/23 10:51	09/13/23 17:02	
Dimethoate	< LOQ	0.1	ppm		09/13/23 10:51	09/14/23 16:53	
Ethoprophos	< LOQ	0.1	ppm		09/13/23 10:51	09/14/23 16:53	
Etofenprox	< LOQ	0.1	ppm		09/13/23 10:51	09/14/23 16:53	
Etoxazole	< LOQ	0.1	ppm		09/13/23 10:51	09/14/23 16:53	
Fenoxycarb	< LOQ	0.1	ppm		09/13/23 10:51	09/14/23 16:53	
Fenpyroximate	< LOQ	0.1	ppm		09/13/23 10:51	09/14/23 16:53	
Fonicamid	< LOQ	0.1	ppm		09/13/23 10:51	09/14/23 16:53	
Hexythiazox	< LOQ	0.1	ppm		09/13/23 10:51	09/14/23 16:53	
Imazalil	< LOQ	0.1	ppm		09/13/23 10:51	09/14/23 16:53	
Fipronil	< LOQ	0.1	ppm		09/13/23 10:51	09/13/23 17:02	
Imidacloprid	< LOQ	0.1	ppm		09/13/23 10:51	09/14/23 16:53	
Fludioxonil	< LOQ	0.1	ppm		09/13/23 10:51	09/13/23 17:02	
Metalaxyl	< LOQ	0.1	ppm		09/13/23 10:51	09/14/23 16:53	
Methiocarb	< LOQ	0.1	ppm		09/13/23 10:51	09/14/23 16:53	
Methomyl	< LOQ	0.1	ppm		09/13/23 10:51	09/14/23 16:53	
Myclobutanil	< LOQ	0.1	ppm		09/13/23 10:51	09/14/23 16:53	
Kresoxim-methyl	< LOQ	0.1	ppm		09/13/23 10:51	09/13/23 17:02	
Naled	< LOQ	0.1	ppm		09/13/23 10:51	09/14/23 16:53	
Malathion	< LOQ	0.1	ppm		09/13/23 10:51	09/13/23 17:02	
Oxamyl	< LOQ	0.1	ppm		09/13/23 10:51	09/14/23 16:53	
Paclobutrazol	< LOQ	0.1	ppm		09/13/23 10:51	09/14/23 16:53	
Permethrins	< LOQ	0.1	ppm		09/13/23 10:51	09/14/23 16:53	
Methyl parathion	< LOQ	0.1	ppm		09/13/23 10:51	09/13/23 17:02	
MGK-264	< LOQ	0.1	ppm		09/13/23 10:51	09/13/23 17:02	
Phosmet	< LOQ	0.1	ppm		09/13/23 10:51	09/14/23 16:53	
Piperonyl butoxide	< LOQ	0.9	ppm		09/13/23 10:51	09/14/23 16:53	
Prallethrin	< LOQ	0.1	ppm		09/13/23 10:51	09/14/23 16:53	
Propoxur	< LOQ	0.1	ppm		09/13/23 10:51	09/14/23 16:53	
Pyrethrins	< LOQ	0.5	ppm		09/13/23 10:51	09/14/23 16:53	
Pyridaben	< LOQ	0.1	ppm		09/13/23 10:51	09/14/23 16:53	
Propiconazole	< LOQ	0.1	ppm		09/13/23 10:51	09/13/23 17:02	
Spinosad	< LOQ	0.1	ppm		09/13/23 10:51	09/14/23 16:53	



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Quality Control Pesticide Analysis (Continued)

Batch: 2337034 - 202 (Continued)

Blank(2337034-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Spiromesifen	< LOQ	0.1	ppm		09/13/23 10:51	09/14/23 16:53	
Spirotetramat	< LOQ	0.1	ppm		09/13/23 10:51	09/14/23 16:53	
Spiroxamine	< LOQ	0.1	ppm		09/13/23 10:51	09/14/23 16:53	
Tebuconazole	< LOQ	0.1	ppm		09/13/23 10:51	09/14/23 16:53	
Thiacloprid	< LOQ	0.1	ppm		09/13/23 10:51	09/14/23 16:53	
Thiamethoxam	< LOQ	0.1	ppm		09/13/23 10:51	09/14/23 16:53	
Trifloxystrobin	< LOQ	0.1	ppm		09/13/23 10:51	09/14/23 16:53	
DDVP (Dichlorvos)	< LOQ	0.1	ppm		09/13/23 10:51	09/14/23 16:53	

LCS(2337034-BS1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Abamectin	110	0.1	ppm	50-150	09/13/23 10:51	09/14/23 17:16	
Acephate	60.1	0.1	ppm	60-120	09/13/23 10:51	09/14/23 17:16	
Acequinocyl	98.8	0.5	ppm	40-160	09/13/23 10:51	09/14/23 17:16	
Acetamiprid	93.5	0.1	ppm	60-120	09/13/23 10:51	09/14/23 17:16	
Aldicarb	91.7	0.1	ppm	60-120	09/13/23 10:51	09/14/23 17:16	
Azoxystrobin	91.7	0.1	ppm	60-120	09/13/23 10:51	09/14/23 17:16	
Bifenazate	95.3	0.1	ppm	60-120	09/13/23 10:51	09/14/23 17:16	
Bifenthrin	98.3	0.1	ppm	50-150	09/13/23 10:51	09/14/23 17:16	
Boscalid	102	0.1	ppm	60-120	09/13/23 10:51	09/14/23 17:16	
Carbaryl	91.8	0.1	ppm	60-120	09/13/23 10:51	09/14/23 17:16	
Carbofuran	92.0	0.1	ppm	60-120	09/13/23 10:51	09/14/23 17:16	
Chlorantraniliprole	98.9	0.1	ppm	60-120	09/13/23 10:51	09/14/23 17:16	
Chlorfenapyr	80.1	0.1	ppm	60-120	09/13/23 10:51	09/13/23 17:24	
Chlorpyrifos	82.1	0.1	ppm	60-120	09/13/23 10:51	09/14/23 17:16	
Clofentezine	86.1	0.1	ppm	60-120	09/13/23 10:51	09/14/23 17:16	
Daminozide	145	0.5	ppm	60-120	09/13/23 10:51	09/14/23 17:16	
Cyfluthrin	84.4	0.5	ppm	50-150	09/13/23 10:51	09/13/23 17:24	
Diazinon	87.0	0.1	ppm	60-120	09/13/23 10:51	09/14/23 17:16	
Cypermethrin	72.5	0.5	ppm	50-150	09/13/23 10:51	09/13/23 17:24	
Dimethoate	88.5	0.1	ppm	60-120	09/13/23 10:51	09/14/23 17:16	
Ethoprophos	90.5	0.1	ppm	60-120	09/13/23 10:51	09/14/23 17:16	
Etofenprox	96.0	0.1	ppm	50-150	09/13/23 10:51	09/14/23 17:16	
Etoxazole	94.0	0.1	ppm	60-120	09/13/23 10:51	09/14/23 17:16	
Fenoxycarb	92.0	0.1	ppm	60-120	09/13/23 10:51	09/14/23 17:16	
Fenpyroximate	90.5	0.1	ppm	60-120	09/13/23 10:51	09/14/23 17:16	
Flonicamid	96.6	0.1	ppm	60-120	09/13/23 10:51	09/14/23 17:16	
Hexythiazox	75.1	0.1	ppm	60-120	09/13/23 10:51	09/14/23 17:16	
Imazalil	88.8	0.1	ppm	60-120	09/13/23 10:51	09/14/23 17:16	



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Quality Control Pesticide Analysis (Continued)

Batch: 2337034 - 202 (Continued)

LCS(2337034-BS1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Fipronil	67.1	0.1	ppm	60-120	09/13/23 10:51	09/13/23 17:24	
Imidacloprid	105	0.1	ppm	60-120	09/13/23 10:51	09/14/23 17:16	
Fludioxonil	69.8	0.1	ppm	50-150	09/13/23 10:51	09/13/23 17:24	
Metalaxyl	91.5	0.1	ppm	60-120	09/13/23 10:51	09/14/23 17:16	
Methiocarb	90.3	0.1	ppm	60-120	09/13/23 10:51	09/14/23 17:16	
Methomyl	90.2	0.1	ppm	60-120	09/13/23 10:51	09/14/23 17:16	
Myclobutanil	99.9	0.1	ppm	60-120	09/13/23 10:51	09/14/23 17:16	
Kresoxim-methyl	82.8	0.1	ppm	60-120	09/13/23 10:51	09/13/23 17:24	
Naled	97.7	0.1	ppm	50-150	09/13/23 10:51	09/14/23 17:16	
Malathion	68.8	0.1	ppm	60-120	09/13/23 10:51	09/13/23 17:24	
Oxamyl	90.4	0.1	ppm	60-120	09/13/23 10:51	09/14/23 17:16	
Paclobutrazol	99.6	0.1	ppm	60-120	09/13/23 10:51	09/14/23 17:16	
Permethrins	104	0.1	ppm	50-150	09/13/23 10:51	09/14/23 17:16	
Methyl parathion	70.1	0.1	ppm	50-150	09/13/23 10:51	09/13/23 17:24	
MGK-264	75.4	0.1	ppm	50-150	09/13/23 10:51	09/13/23 17:24	
Phosmet	97.9	0.1	ppm	50-150	09/13/23 10:51	09/14/23 17:16	
Piperonyl butoxide	62.2	0.9	ppm	60-120	09/13/23 10:51	09/14/23 17:16	
Prallethrin	84.8	0.1	ppm	60-120	09/13/23 10:51	09/14/23 17:16	
Propoxur	90.3	0.1	ppm	60-120	09/13/23 10:51	09/14/23 17:16	
Pyrethrins	87.2	0.5	ppm	60-120	09/13/23 10:51	09/14/23 17:16	
Pyridaben	96.4	0.1	ppm	50-150	09/13/23 10:51	09/14/23 17:16	
Propiconazole	71.5	0.1	ppm	60-120	09/13/23 10:51	09/13/23 17:24	
Spinosad	86.3	0.1	ppm	50-150	09/13/23 10:51	09/14/23 17:16	
Spiromesifen	88.6	0.1	ppm	60-120	09/13/23 10:51	09/14/23 17:16	
Spirotetramat	97.4	0.1	ppm	60-120	09/13/23 10:51	09/14/23 17:16	
Spiroxamine	85.8	0.1	ppm	60-120	09/13/23 10:51	09/14/23 17:16	
Tebuconazole	92.0	0.1	ppm	60-120	09/13/23 10:51	09/14/23 17:16	
Thiacloprid	93.6	0.1	ppm	60-120	09/13/23 10:51	09/14/23 17:16	
Thiamethoxam	97.5	0.1	ppm	60-120	09/13/23 10:51	09/14/23 17:16	
Trifloxystrobin	97.9	0.1	ppm	60-120	09/13/23 10:51	09/14/23 17:16	
DDVP (Dichlorvos)	89.6	0.1	ppm	60-120	09/13/23 10:51	09/14/23 17:16	

Solvent Analysis

Batch: 2337040 - 205

Blank(2337040-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Acetone	< LOQ	1000	ppm		09/13/23 11:40	09/14/23 15:32	
Acetonitrile	< LOQ	50.00	ppm		09/13/23 11:40	09/14/23 15:32	



Eric Wendt
Chief Science Officer - 9/17/2023



Quality Control Solvent Analysis (Continued)

Batch: 2337040 - 205 (Continued)

Blank(2337040-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Benzene	< LOQ	1.000	ppm		09/13/23 11:40	09/14/23 15:32	
Butanes	< LOQ	1000	ppm		09/13/23 11:40	09/14/23 15:32	
2-Butanol	< LOQ	1000	ppm		09/13/23 11:40	09/14/23 15:32	
Cumene	< LOQ	35.00	ppm		09/13/23 11:40	09/14/23 15:32	
Cyclohexane	< LOQ	50.00	ppm		09/13/23 11:40	09/14/23 15:32	
Dichloromethane	< LOQ	50.00	ppm		09/13/23 11:40	09/14/23 15:32	
1,4-Dioxane	< LOQ	50.00	ppm		09/13/23 11:40	09/14/23 15:32	
Ethanol	< LOQ	50.00	ppm		09/13/23 11:40	09/14/23 15:32	
2-Ethoxyethanol	< LOQ	80.00	ppm		09/13/23 11:40	09/14/23 15:32	
Ethyl acetate	< LOQ	1000	ppm		09/13/23 11:40	09/14/23 15:32	
Ethyl benzene	< LOQ	35.00	ppm		09/13/23 11:40	09/14/23 15:32	
Ethylene glycol	< LOQ	310.0	ppm		09/13/23 11:40	09/14/23 15:32	
Ethylene oxide	< LOQ	25.00	ppm		09/13/23 11:40	09/14/23 15:32	
Ethyl ether	< LOQ	1000	ppm		09/13/23 11:40	09/14/23 15:32	
Heptane	< LOQ	1000	ppm		09/13/23 11:40	09/14/23 15:32	
Hexanes	< LOQ	50.00	ppm		09/13/23 11:40	09/14/23 15:32	
Isopropyl acetate	< LOQ	1000	ppm		09/13/23 11:40	09/14/23 15:32	
Methanol	< LOQ	1000	ppm		09/13/23 11:40	09/14/23 15:32	
Pentanes	< LOQ	1000	ppm		09/13/23 11:40	09/14/23 15:32	
Propane	< LOQ	1000	ppm		09/13/23 11:40	09/14/23 15:32	
2-Propanol (IPA)	< LOQ	1000	ppm		09/13/23 11:40	09/14/23 15:32	
Tetrahydrofuran	< LOQ	50.00	ppm		09/13/23 11:40	09/14/23 15:32	
Toluene	< LOQ	50.00	ppm		09/13/23 11:40	09/14/23 15:32	
Xylenes	< LOQ	50.00	ppm		09/13/23 11:40	09/14/23 15:32	

LCS(2337040-BS1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Acetone	60.2	1000	ppm	60-120	09/13/23 11:40	09/13/23 23:51	BSL
Acetonitrile	60.4	50.00	ppm	60-120	09/13/23 11:40	09/13/23 23:51	BSL
Benzene	78.4	1.000	ppm	60-120	09/13/23 11:40	09/13/23 23:51	
Butanes	69.8	1000	ppm	60-120	09/13/23 11:40	09/13/23 23:51	
2-Butanol	61.5	1000	ppm	60-120	09/13/23 11:40	09/13/23 23:51	
Cumene	67.1	35.00	ppm	60-120	09/13/23 11:40	09/13/23 23:51	
Cyclohexane	72.6	50.00	ppm	60-120	09/13/23 11:40	09/13/23 23:51	
Dichloromethane	60.3	50.00	ppm	60-120	09/13/23 11:40	09/13/23 23:51	BSL
1,4-Dioxane	64.8	50.00	ppm	60-120	09/13/23 11:40	09/13/23 23:51	
2-Ethoxyethanol	69.4	80.00	ppm	60-120	09/13/23 11:40	09/13/23 23:51	
Ethyl acetate	60.8	1000	ppm	60-120	09/13/23 11:40	09/13/23 23:51	BSL
Ethyl benzene	68.6	35.00	ppm	60-120	09/13/23 11:40	09/13/23 23:51	



Eric Wendt
Chief Science Officer - 9/17/2023



Quality Control Solvent Analysis (Continued)

Batch: 2337040 - 205 (Continued)

LCS(2337040-BS1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Ethylene glycol	64.9	310.0	ppm	60-120	09/13/23 11:40	09/13/23 23:51	
Ethylene oxide	60.1	25.00	ppm	60-120	09/13/23 11:40	09/13/23 23:51	BSL
Ethyl ether	64.3	1000	ppm	60-120	09/13/23 11:40	09/13/23 23:51	
Heptane	64.4	1000	ppm	60-120	09/13/23 11:40	09/13/23 23:51	
Hexanes	71.6	50.00	ppm	60-120	09/13/23 11:40	09/13/23 23:51	
Isopropyl acetate	61.0	1000	ppm	60-120	09/13/23 11:40	09/13/23 23:51	
Methanol	60.1	1000	ppm	60-120	09/13/23 11:40	09/13/23 23:51	BSL
Pentanes	74.6	1000	ppm	60-120	09/13/23 11:40	09/13/23 23:51	
Propane	76.4	1000	ppm	60-120	09/13/23 11:40	09/13/23 23:51	
2-Propanol (IPA)	61.0	1000	ppm	60-120	09/13/23 11:40	09/13/23 23:51	BSL
Tetrahydrofuran	60.7	50.00	ppm	60-120	09/13/23 11:40	09/13/23 23:51	BSL
Toluene	67.6	50.00	ppm	60-120	09/13/23 11:40	09/13/23 23:51	

Metals

Batch: 2337029 - 217

Blank(2337029-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Cadmium	< LOQ	0.08	ug/g		09/13/23 09:23	09/13/23 16:21	
Lead	< LOQ	0.08	ug/g		09/13/23 09:23	09/13/23 16:21	
Arsenic	< LOQ	0.08	ug/g		09/13/23 09:23	09/13/23 16:21	
Mercury	< LOQ	0.04	ug/g		09/13/23 09:23	09/13/23 16:21	

LCS(2337029-BS1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Cadmium	99.3	0.08	ug/g	80-115	09/13/23 09:23	09/13/23 16:22	
Lead	102	0.08	ug/g	80-115	09/13/23 09:23	09/13/23 16:22	
Arsenic	98.8	0.08	ug/g	80-115	09/13/23 09:23	09/13/23 16:22	
Mercury	96.9	0.04	ug/g	80-115	09/13/23 09:23	09/13/23 16:22	



Eric Wendt
Chief Science Officer - 9/17/2023



Notes and Definitions

Regulatory Compliance samples were collected onsite at facility according to ORELAP-SOP-001 and ORELAP-SOP-002 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.
- C Interference due to co-elution
- 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 - 9/17/2023

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: 23-010823/D003.R000
Report Date: 09/18/2023
ORELAP#: OR100028
Purchase Order:
Received: 09/12/23 12:28

Customer: GVB Oregon
Product identity: CBD Iso GVL-TST727
Client/Metric ID: .
Laboratory ID: 23-010823-0003

Summary

Microbiology:

Less than LOQ for all analytes.



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 Portland, OR 97230
 503-254-1794



Report Number: 23-010823/D003.R000
Report Date: 09/18/2023
ORELAP#: OR100028
Purchase Order:
Received: 09/12/23 12:28

Customer: GVB Oregon
 United States of America (USA)
Product identity: CBD Iso GVL-TST727
Client/Metric ID: .
Sample Date:
Laboratory ID: 23-010823-0003
Evidence of Cooling: No
Temp: 25.1 °C
Relinquished by: Client

Sample Results

Microbiology							
Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status Notes
E.coli	< LOQ		cfu/g	10	2310838	09/15/23 AOAC 991.14 (Petrifilm) ^P	
Total Coliforms	< LOQ		cfu/g	10	2310838	09/15/23 AOAC 991.14 (Petrifilm) ^P	
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2310839	09/15/23 AOAC 2014.05 (RAPID) ^P	
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2310839	09/15/23 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: 23-010823/D003.R000
Report Date: 09/18/2023
ORELAP#: OR100028
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Explanation of QC Flag Comments:

Code	Explanation
Q	Matrix interferences affecting spike or surrogate recoveries.
Q1	Quality control result biased high. Only non-detect samples reported.
Q2	Quality control outside QC limits. Data considered estimate.
Q3	Sample concentration greater than four times the amount spiked.
Q4	Non-homogenous sample matrix, affecting RPD result and/or % recoveries.
Q5	Spike results above calibration curve.
Q6	Quality control outside QC limits. Data acceptable based on remaining QC.
R	Relative percent difference (RPD) outside control limit.
R1	RPD non-calculable, as sample or duplicate results are less than five times the LOQ.
R2	Sample replicates RPD non-calculable, as only one replicate is within the analytical range.
LOQ1	Quantitation level raised due to low sample volume and/or dilution.
LOQ2	Quantitation level raised due to matrix interference.
B	Analyte detected in method blank, but not in associated samples.
B1	The sample concentration is greater than 5 times the blank concentration.
B2	The sample concentration is less than 5 times the blank concentration.