



CBD Iso GVL-TST691

Sample ID: G3G0173-05 Matrix: Hemp Extracts & Concentrates

Test ID: 5024104

Source ID:

Date Sampled: 07/14/23 Date Accepted: 07/14/23

Harvest/Prod. Date: 07.14.2023

Fresh Bros

Results at a Glance

Total THC : <LOQ (0.1577%) %

Total CBD : 99.84 %

Pesticides : PASS

Residual Solvent Analysis : PASS

Metals : PASS



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LABORATORY**

Eric Wendt
Chief Science Officer - 7/19/2023



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Fresh Bros

Potency Analysis by HPLC

Date/Time Extracted: 07/14/23 16:22

Analysis Method/SOP: 215

Batch Identification: 2328096

Cannabinoids	LOQ (%)	% by Wt.	mg/g	Cannabinoids Profile
Total THC	0.1577	< LOQ	< LOQ	<p>A 3D pie chart showing the cannabinoid profile. The chart is almost entirely green, representing CBD. A legend indicates 'CBD 99.8' and 'Total: 99.8'. A line points from the value '99.8' on the chart to the legend.</p>
Total CBD	0.0431	99.84	998.4	
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	99.84	998.4	
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		99.84	998.4	

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: 07.14.2023

Fresh Bros

Pesticide Analysis by LCMSMS and GCMSMS

Date/Time Extracted: 07/14/23 16:45

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: 07.14.2023

Fresh Bros

Residual Solvents by GCMS-HS

Date/Time Extracted: 07/17/23 10:44

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: 07.14.2023

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Metals by ICPMS

Date/Time Extracted: 07/14/23 16:31

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: 2328096 - 215-Concentrates

Blank(2328096-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
THCA	< LOQ	0.0005	%		07/14/23 16:22	07/15/23 18:24	
delta 9-THC	< LOQ	0.0005	%		07/14/23 16:22	07/15/23 18:24	
delta 8-THC	< LOQ	0.0934	%		07/14/23 16:22	07/15/23 18:24	
THCV	< LOQ	0.1052	%		07/14/23 16:22	07/15/23 18:24	
THCVA	< LOQ	0.0392	%		07/14/23 16:22	07/15/23 18:24	
CBD	< LOQ	0.0005	%		07/14/23 16:22	07/15/23 18:24	
CBDA	< LOQ	0.0005	%		07/14/23 16:22	07/15/23 18:24	
CBDV	< LOQ	0.1040	%		07/14/23 16:22	07/15/23 18:24	
CBDVA	< LOQ	0.0341	%		07/14/23 16:22	07/15/23 18:24	
CBN	< LOQ	0.0622	%		07/14/23 16:22	07/15/23 18:24	
CBG	< LOQ	0.0164	%		07/14/23 16:22	07/15/23 18:24	
CBGA	< LOQ	0.0164	%		07/14/23 16:22	07/15/23 18:24	
CBC	< LOQ	0.0186	%		07/14/23 16:22	07/15/23 18:24	

Reference(2328096-SRM1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
THCA	106	0.00025	%	90-110	07/14/23 16:22	07/15/23 18:48	
delta 9-THC	106	0.00025	%	90-110	07/14/23 16:22	07/15/23 18:48	
delta 8-THC	93.5	0.0460	%	90-110	07/14/23 16:22	07/15/23 18:48	
CBD	108	0.00025	%	90-110	07/14/23 16:22	07/15/23 18:48	
CBDA	91.0	0.00025	%	90-110	07/14/23 16:22	07/15/23 18:48	

Pesticide Analysis

Batch: 2328098 - 202

Blank(2328098-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Abamectin	< LOQ	0.1	ppm		07/14/23 16:45	07/16/23 01:04	
Acephate	< LOQ	0.1	ppm		07/14/23 16:45	07/16/23 01:04	
Acequinocyl	< LOQ	0.5	ppm		07/14/23 16:45	07/16/23 01:04	
Acetamiprid	< LOQ	0.1	ppm		07/14/23 16:45	07/16/23 01:04	
Aldicarb	< LOQ	0.1	ppm		07/14/23 16:45	07/16/23 01:04	
Azoxystrobin	< LOQ	0.1	ppm		07/14/23 16:45	07/16/23 01:04	
Bifenazate	< LOQ	0.1	ppm		07/14/23 16:45	07/16/23 01:04	
Bifenthrin	< LOQ	0.1	ppm		07/14/23 16:45	07/16/23 01:04	
Boscalid	< LOQ	0.1	ppm		07/14/23 16:45	07/16/23 04:33	
Carbaryl	< LOQ	0.1	ppm		07/14/23 16:45	07/16/23 01:04	
Carbofuran	< LOQ	0.1	ppm		07/14/23 16:45	07/16/23 01:04	
Chlorantraniliprole	< LOQ	0.1	ppm		07/14/23 16:45	07/16/23 01:04	
Chlorfenapyr	< LOQ	0.1	ppm		07/14/23 16:45	07/16/23 04:33	



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Quality Control Pesticide Analysis (Continued)

Batch: 2328098 - 202 (Continued)

Blank(2328098-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Chlorpyrifos	< LOQ	0.1	ppm		07/14/23 16:45	07/16/23 01:04	
Clofentezine	< LOQ	0.1	ppm		07/14/23 16:45	07/16/23 01:04	
Daminozide	< LOQ	0.5	ppm		07/14/23 16:45	07/16/23 01:04	
Cyfluthrin	< LOQ	0.5	ppm		07/14/23 16:45	07/16/23 04:33	
Diazinon	< LOQ	0.1	ppm		07/14/23 16:45	07/16/23 01:04	
Cypermethrin	< LOQ	0.5	ppm		07/14/23 16:45	07/16/23 04:33	
Dimethoate	< LOQ	0.1	ppm		07/14/23 16:45	07/16/23 01:04	
Ethoprophos	< LOQ	0.1	ppm		07/14/23 16:45	07/16/23 01:04	
Etofenprox	< LOQ	0.1	ppm		07/14/23 16:45	07/16/23 01:04	
Etoxazole	< LOQ	0.1	ppm		07/14/23 16:45	07/16/23 01:04	
Fenoxycarb	< LOQ	0.1	ppm		07/14/23 16:45	07/16/23 01:04	
Fenpyroximate	< LOQ	0.1	ppm		07/14/23 16:45	07/16/23 01:04	
Fonicamid	< LOQ	0.1	ppm		07/14/23 16:45	07/16/23 01:04	
Hexythiazox	< LOQ	0.1	ppm		07/14/23 16:45	07/16/23 01:04	
Imazalil	< LOQ	0.1	ppm		07/14/23 16:45	07/16/23 01:04	
Fipronil	< LOQ	0.1	ppm		07/14/23 16:45	07/16/23 04:33	
Imidacloprid	< LOQ	0.1	ppm		07/14/23 16:45	07/16/23 01:04	
Fludioxonil	< LOQ	0.1	ppm		07/14/23 16:45	07/16/23 04:33	
Metalaxyl	< LOQ	0.1	ppm		07/14/23 16:45	07/16/23 01:04	
Methiocarb	< LOQ	0.1	ppm		07/14/23 16:45	07/16/23 01:04	
Methomyl	< LOQ	0.1	ppm		07/14/23 16:45	07/16/23 01:04	
Myclobutanil	< LOQ	0.1	ppm		07/14/23 16:45	07/16/23 01:04	
Kresoxim-methyl	< LOQ	0.1	ppm		07/14/23 16:45	07/16/23 04:33	
Naled	< LOQ	0.1	ppm		07/14/23 16:45	07/16/23 01:04	
Malathion	< LOQ	0.1	ppm		07/14/23 16:45	07/16/23 04:33	
Oxamyl	< LOQ	0.1	ppm		07/14/23 16:45	07/16/23 01:04	
Permethrins	< LOQ	0.1	ppm		07/14/23 16:45	07/16/23 01:04	
Methyl parathion	< LOQ	0.1	ppm		07/14/23 16:45	07/16/23 04:33	
MGK-264	< LOQ	0.1	ppm		07/14/23 16:45	07/16/23 04:33	
Phosmet	< LOQ	0.1	ppm		07/14/23 16:45	07/16/23 01:04	
Piperonyl butoxide	< LOQ	0.9	ppm		07/14/23 16:45	07/16/23 01:04	
Prallethrin	< LOQ	0.1	ppm		07/14/23 16:45	07/16/23 01:04	
Paclobutrazol	< LOQ	0.1	ppm		07/14/23 16:45	07/16/23 04:33	
Propoxur	< LOQ	0.1	ppm		07/14/23 16:45	07/16/23 01:04	
Pyrethrins	< LOQ	0.5	ppm		07/14/23 16:45	07/16/23 01:04	
Pyridaben	< LOQ	0.1	ppm		07/14/23 16:45	07/16/23 01:04	
Propiconazole	< LOQ	0.1	ppm		07/14/23 16:45	07/16/23 04:33	
Spinosad	< LOQ	0.1	ppm		07/14/23 16:45	07/16/23 01:04	



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Quality Control Pesticide Analysis (Continued)

Batch: 2328098 - 202 (Continued)

Blank(2328098-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Spiromesifen	< LOQ	0.1	ppm		07/14/23 16:45	07/16/23 01:04	
Spirotetramat	< LOQ	0.1	ppm		07/14/23 16:45	07/16/23 01:04	
Spiroxamine	< LOQ	0.1	ppm		07/14/23 16:45	07/16/23 01:04	
Thiacloprid	< LOQ	0.1	ppm		07/14/23 16:45	07/16/23 01:04	
Thiamethoxam	< LOQ	0.1	ppm		07/14/23 16:45	07/16/23 01:04	
Tebuconazole	< LOQ	0.1	ppm		07/14/23 16:45	07/16/23 04:33	
Trifloxystrobin	< LOQ	0.1	ppm		07/14/23 16:45	07/16/23 01:04	
DDVP (Dichlorvos)	< LOQ	0.1	ppm		07/14/23 16:45	07/16/23 01:04	

LCS(2328098-BS1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Abamectin	98.8	0.1	ppm	50-150	07/14/23 16:45	07/16/23 01:27	
Acephate	94.1	0.1	ppm	60-120	07/14/23 16:45	07/16/23 01:27	
Acequinocyl	114	0.5	ppm	40-160	07/14/23 16:45	07/16/23 01:27	
Acetamiprid	93.0	0.1	ppm	60-120	07/14/23 16:45	07/16/23 01:27	
Aldicarb	114	0.1	ppm	60-120	07/14/23 16:45	07/16/23 01:27	
Azoxystrobin	92.1	0.1	ppm	60-120	07/14/23 16:45	07/16/23 01:27	
Bifenazate	85.2	0.1	ppm	60-120	07/14/23 16:45	07/16/23 01:27	
Bifenthrin	154	0.1	ppm	50-150	07/14/23 16:45	07/16/23 01:27	BSH
Boscalid	89.2	0.1	ppm	60-120	07/14/23 16:45	07/16/23 04:55	
Carbaryl	75.6	0.1	ppm	60-120	07/14/23 16:45	07/16/23 01:27	
Carbofuran	87.7	0.1	ppm	60-120	07/14/23 16:45	07/16/23 01:27	
Chlorantraniliprole	114	0.1	ppm	60-120	07/14/23 16:45	07/16/23 01:27	
Chlorfenapyr	111	0.1	ppm	60-120	07/14/23 16:45	07/16/23 04:55	
Chlorpyrifos	101	0.1	ppm	60-120	07/14/23 16:45	07/16/23 01:27	
Clofentezine	70.1	0.1	ppm	60-120	07/14/23 16:45	07/16/23 01:27	
Daminozide	151	0.5	ppm	60-120	07/14/23 16:45	07/16/23 01:27	
Cyfluthrin	145	0.5	ppm	50-150	07/14/23 16:45	07/16/23 04:55	
Diazinon	84.9	0.1	ppm	60-120	07/14/23 16:45	07/16/23 01:27	
Cypermethrin	88.2	0.5	ppm	50-150	07/14/23 16:45	07/16/23 04:55	
Dimethoate	91.2	0.1	ppm	60-120	07/14/23 16:45	07/16/23 01:27	
Ethoprophos	85.0	0.1	ppm	60-120	07/14/23 16:45	07/16/23 01:27	
Etofenprox	114	0.1	ppm	50-150	07/14/23 16:45	07/16/23 01:27	
Etoxazole	96.8	0.1	ppm	60-120	07/14/23 16:45	07/16/23 01:27	
Fenoxycarb	77.7	0.1	ppm	60-120	07/14/23 16:45	07/16/23 01:27	
Fenpyroximate	98.7	0.1	ppm	60-120	07/14/23 16:45	07/16/23 01:27	
Flonicamid	91.0	0.1	ppm	60-120	07/14/23 16:45	07/16/23 01:27	
Hexythiazox	101	0.1	ppm	60-120	07/14/23 16:45	07/16/23 01:27	
Imazalil	98.4	0.1	ppm	60-120	07/14/23 16:45	07/16/23 01:27	



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Quality Control Pesticide Analysis (Continued)

Batch: 2328098 - 202 (Continued)

LCS(2328098-BS1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Fipronil	93.3	0.1	ppm	60-120	07/14/23 16:45	07/16/23 04:55	
Imidacloprid	82.1	0.1	ppm	60-120	07/14/23 16:45	07/16/23 01:27	
Fludioxonil	81.6	0.1	ppm	50-150	07/14/23 16:45	07/16/23 04:55	
Metalaxyl	89.9	0.1	ppm	60-120	07/14/23 16:45	07/16/23 01:27	
Methiocarb	69.5	0.1	ppm	60-120	07/14/23 16:45	07/16/23 01:27	
Methomyl	110	0.1	ppm	60-120	07/14/23 16:45	07/16/23 01:27	
Myclobutanil	75.9	0.1	ppm	60-120	07/14/23 16:45	07/16/23 01:27	
Kresoxim-methyl	101	0.1	ppm	60-120	07/14/23 16:45	07/16/23 04:55	
Naled	97.3	0.1	ppm	50-150	07/14/23 16:45	07/16/23 01:27	
Malathion	113	0.1	ppm	60-120	07/14/23 16:45	07/16/23 04:55	
Oxamyl	99.7	0.1	ppm	60-120	07/14/23 16:45	07/16/23 01:27	
Permethrins	125	0.1	ppm	50-150	07/14/23 16:45	07/16/23 01:27	
Methyl parathion	94.1	0.1	ppm	50-150	07/14/23 16:45	07/16/23 04:55	
MGK-264	93.2	0.1	ppm	50-150	07/14/23 16:45	07/16/23 04:55	
Phosmet	54.5	0.1	ppm	50-150	07/14/23 16:45	07/16/23 01:27	
Piperonyl butoxide	245	0.9	ppm	60-120	07/14/23 16:45	07/16/23 01:27	
Prallethrin	101	0.1	ppm	60-120	07/14/23 16:45	07/16/23 01:27	
Paclobutrazol	95.9	0.1	ppm	60-120	07/14/23 16:45	07/16/23 04:55	
Propoxur	83.6	0.1	ppm	60-120	07/14/23 16:45	07/16/23 01:27	
Pyrethrins	93.8	0.5	ppm	60-120	07/14/23 16:45	07/16/23 01:27	
Pyridaben	104	0.1	ppm	50-150	07/14/23 16:45	07/16/23 01:27	
Propiconazole	92.4	0.1	ppm	60-120	07/14/23 16:45	07/16/23 04:55	
Spinosad	114	0.1	ppm	50-150	07/14/23 16:45	07/16/23 01:27	
Spiromesifen	89.1	0.1	ppm	60-120	07/14/23 16:45	07/16/23 01:27	
Spirotetramat	56.3	0.1	ppm	60-120	07/14/23 16:45	07/16/23 01:27	
Spiroxamine	85.3	0.1	ppm	60-120	07/14/23 16:45	07/16/23 01:27	
Thiacloprid	93.6	0.1	ppm	60-120	07/14/23 16:45	07/16/23 01:27	
Thiamethoxam	91.9	0.1	ppm	60-120	07/14/23 16:45	07/16/23 01:27	
Tebuconazole	91.3	0.1	ppm	60-120	07/14/23 16:45	07/16/23 04:55	
Trifloxystrobin	89.6	0.1	ppm	60-120	07/14/23 16:45	07/16/23 01:27	
DDVP (Dichlorvos)	80.0	0.1	ppm	60-120	07/14/23 16:45	07/16/23 01:27	

Solvent Analysis

Batch: 2329004 - 205

Blank(2329004-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Acetone	< LOQ	1000	ppm		07/17/23 10:44	07/18/23 09:15	
Acetonitrile	< LOQ	50.00	ppm		07/17/23 10:44	07/18/23 09:15	



Eric Wendt
Chief Science Officer - 7/19/2023

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Quality Control Solvent Analysis (Continued)

Batch: 2329004 - 205 (Continued)

Blank(2329004-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Benzene	< LOQ	1.000	ppm		07/17/23 10:44	07/18/23 09:15	
Butanes	< LOQ	1000	ppm		07/17/23 10:44	07/18/23 09:15	
2-Butanol	< LOQ	1000	ppm		07/17/23 10:44	07/18/23 09:15	
Cumene	< LOQ	35.00	ppm		07/17/23 10:44	07/18/23 09:15	
Cyclohexane	< LOQ	50.00	ppm		07/17/23 10:44	07/18/23 09:15	
Dichloromethane	< LOQ	50.00	ppm		07/17/23 10:44	07/18/23 09:15	
1,4-Dioxane	< LOQ	50.00	ppm		07/17/23 10:44	07/18/23 09:15	
Ethanol	< LOQ	50.00	ppm		07/17/23 10:44	07/18/23 09:15	
2-Ethoxyethanol	< LOQ	80.00	ppm		07/17/23 10:44	07/18/23 09:15	
Ethyl acetate	< LOQ	1000	ppm		07/17/23 10:44	07/18/23 09:15	
Ethyl benzene	< LOQ	35.00	ppm		07/17/23 10:44	07/18/23 09:15	
Ethylene glycol	< LOQ	310.0	ppm		07/17/23 10:44	07/18/23 09:15	
Ethylene oxide	< LOQ	25.00	ppm		07/17/23 10:44	07/18/23 09:15	
Ethyl ether	< LOQ	1000	ppm		07/17/23 10:44	07/18/23 09:15	
Heptane	< LOQ	1000	ppm		07/17/23 10:44	07/18/23 09:15	
Hexanes	< LOQ	50.00	ppm		07/17/23 10:44	07/18/23 09:15	
Isopropyl acetate	< LOQ	1000	ppm		07/17/23 10:44	07/18/23 09:15	
Methanol	< LOQ	1000	ppm		07/17/23 10:44	07/18/23 09:15	
Pentanes	< LOQ	1000	ppm		07/17/23 10:44	07/18/23 09:15	
Propane	< LOQ	1000	ppm		07/17/23 10:44	07/18/23 09:15	
2-Propanol (IPA)	< LOQ	1000	ppm		07/17/23 10:44	07/18/23 09:15	
Tetrahydrofuran	< LOQ	50.00	ppm		07/17/23 10:44	07/18/23 09:15	
Toluene	< LOQ	50.00	ppm		07/17/23 10:44	07/18/23 09:15	
Xylenes	< LOQ	50.00	ppm		07/17/23 10:44	07/18/23 09:15	

LCS(2329004-BS1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Acetone	82.9	1000	ppm	60-120	07/17/23 10:44	07/17/23 13:59	
Acetonitrile	91.6	50.00	ppm	60-120	07/17/23 10:44	07/17/23 13:59	
Benzene	78.8	1.000	ppm	60-120	07/17/23 10:44	07/17/23 13:59	
Butanes	87.1	1000	ppm	60-120	07/17/23 10:44	07/17/23 13:59	
2-Butanol	84.6	1000	ppm	60-120	07/17/23 10:44	07/17/23 13:59	
Cumene	73.0	35.00	ppm	60-120	07/17/23 10:44	07/17/23 13:59	
Cyclohexane	82.2	50.00	ppm	60-120	07/17/23 10:44	07/17/23 13:59	
Dichloromethane	90.4	50.00	ppm	60-120	07/17/23 10:44	07/17/23 13:59	
1,4-Dioxane	77.4	50.00	ppm	60-120	07/17/23 10:44	07/17/23 13:59	
2-Ethoxyethanol	87.6	80.00	ppm	60-120	07/17/23 10:44	07/17/23 13:59	
Ethyl acetate	82.3	1000	ppm	60-120	07/17/23 10:44	07/17/23 13:59	
Ethyl benzene	76.9	35.00	ppm	60-120	07/17/23 10:44	07/17/23 13:59	



Eric Wendt
Chief Science Officer - 7/19/2023



Quality Control Solvent Analysis (Continued)

Batch: 2329004 - 205 (Continued)

LCS(2329004-BS1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Ethylene glycol	94.8	310.0	ppm	60-120	07/17/23 10:44	07/17/23 13:59	
Ethylene oxide	82.4	25.00	ppm	60-120	07/17/23 10:44	07/17/23 13:59	
Ethyl ether	87.1	1000	ppm	60-120	07/17/23 10:44	07/17/23 13:59	
Heptane	97.4	1000	ppm	60-120	07/17/23 10:44	07/17/23 13:59	
Hexanes	89.3	50.00	ppm	60-120	07/17/23 10:44	07/17/23 13:59	
Isopropyl acetate	81.8	1000	ppm	60-120	07/17/23 10:44	07/17/23 13:59	
Methanol	60.0	1000	ppm	60-120	07/17/23 10:44	07/17/23 13:59	BSL
Pentanes	98.4	1000	ppm	60-120	07/17/23 10:44	07/17/23 13:59	
Propane	98.9	1000	ppm	60-120	07/17/23 10:44	07/17/23 13:59	
2-Propanol (IPA)	84.4	1000	ppm	60-120	07/17/23 10:44	07/17/23 13:59	
Tetrahydrofuran	93.9	50.00	ppm	60-120	07/17/23 10:44	07/17/23 13:59	
Toluene	79.3	50.00	ppm	60-120	07/17/23 10:44	07/17/23 13:59	

Metals

Batch: 2328097 - 217

Blank(2328097-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Cadmium	< LOQ	0.08	ug/g		07/14/23 16:31	07/15/23 15:34	
Lead	< LOQ	0.08	ug/g		07/14/23 16:31	07/15/23 15:34	
Arsenic	< LOQ	0.08	ug/g		07/14/23 16:31	07/15/23 15:34	
Mercury	< LOQ	0.04	ug/g		07/14/23 16:31	07/15/23 15:34	

LCS(2328097-BS1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Cadmium	98.7	0.08	ug/g	80-115	07/14/23 16:31	07/15/23 15:36	
Lead	102	0.08	ug/g	80-115	07/14/23 16:31	07/15/23 15:36	
Arsenic	97.3	0.08	ug/g	80-115	07/14/23 16:31	07/15/23 15:36	
Mercury	95.2	0.04	ug/g	80-115	07/14/23 16:31	07/15/23 15:36	



Eric Wendt
Chief Science Officer - 7/19/2023



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.
- 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 - 7/19/2023

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



Report Number: 23-008337/D003.R000
Report Date: 07/19/2023
ORELAP#: OR100028
Purchase Order:
Received: 07/14/23 14:21

Customer: GVB Oregon
Product identity: CBD Iso GVL-TST691
Client/Metric ID: .
Laboratory ID: 23-008337-0003

Summary

Microbiology:

Less than LOQ for all analytes.



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



Report Number: 23-008337/D003.R000
Report Date: 07/19/2023
ORELAP#: OR100028
Purchase Order:
Received: 07/14/23 14:21

Customer: GVB Oregon
United States of America (USA)
Product identity: CBD Iso GVL-TST691
Client/Metric ID: .
Sample Date:
Laboratory ID: 23-008337-0003
Evidence of Cooling: No
Temp: 30.3 °C
Relinquished by: Client

Sample Results

Microbiology							
Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status Notes
E.coli	< LOQ		cfu/g	10	2309120	07/17/23 AOAC 991.14 (Petrifilm) ^P	
Total Coliforms	< LOQ		cfu/g	10	2309120	07/17/23 AOAC 991.14 (Petrifilm) ^P	
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2309121	07/17/23 AOAC 2014.05 (RAPID) ^P	
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2309121	07/17/23 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: 23-008337/D003.R000
Report Date: 07/19/2023
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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.