



CBD Iso GVL-TST707

Sample ID: G3H0017-03 Matrix: Hemp Extracts & Concentrates

Test ID: 5024134

Source ID:

Date Sampled: 08/01/23 Date Accepted: 08/01/23

Harvest/Prod. Date: 07.31.2023

Results at a Glance

Total THC : <LOQ (0.1577%) %

Total CBD : 99.46 %

Pesticides : PASS

Residual Solvent Analysis : PASS

Metals : PASS



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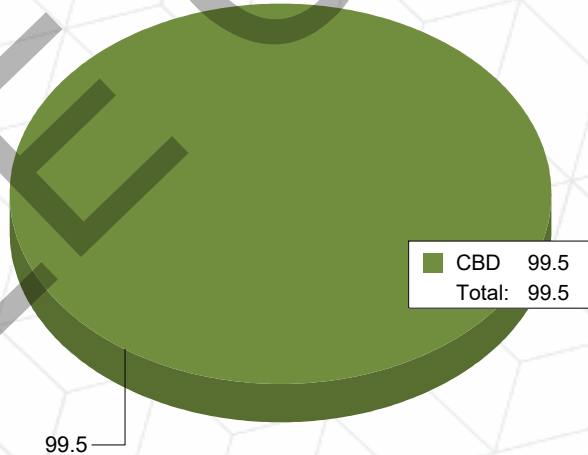
Potency Analysis by HPLC

Date/Time Extracted: 08/02/23 10:35

Analysis Method/SOP: 215

Batch Identification: 2331030

Cannabinoids	LOQ (%)	% by Wt.	mg/g	Cannabinoids Profile
Total THC	0.1577	< LOQ	< LOQ	
Total CBD	0.0431	99.46	994.6	
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	99.46	994.6	
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		99.46	994.6	



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.



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Sample ID: G3H0017-03 Matrix: Hemp Extracts & Concentrates

Test ID: 5024134

Source ID:

Date Sampled: 08/01/23 Date Accepted: 08/01/23

Harvest/Prod. Date: 07.31.2023

Pesticide Analysis by LCMSMS and GCMSMS

Date/Time Extracted: 08/02/23 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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Test ID: 5024134

Source ID:

Date Sampled: 08/01/23 Date Accepted: 08/01/23

Harvest/Prod. Date: 07.31.2023

Residual Solvents by GCMS-HS

Date/Time Extracted: 08/02/23 10:27

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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Source ID:

Date Sampled: 08/01/23 Date Accepted: 08/01/23

Harvest/Prod. Date: 07.31.2023

Metals by ICPMS

Date/Time Extracted: 08/01/23 09:25

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: 2331030 - 215-Concentrates

Blank(2331030-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
THCA	< LOQ	0.0005	%		08/02/23 10:35	08/02/23 17:08	
delta 9-THC	< LOQ	0.0005	%		08/02/23 10:35	08/02/23 17:08	
delta 8-THC	< LOQ	0.0934	%		08/02/23 10:35	08/02/23 17:08	
THCV	< LOQ	0.1052	%		08/02/23 10:35	08/02/23 17:08	
THCVA	< LOQ	0.0392	%		08/02/23 10:35	08/02/23 17:08	
CBD	< LOQ	0.0005	%		08/02/23 10:35	08/02/23 17:08	
CBDA	< LOQ	0.0005	%		08/02/23 10:35	08/02/23 17:08	
CBDV	< LOQ	0.1040	%		08/02/23 10:35	08/02/23 17:08	
CBDVA	< LOQ	0.0341	%		08/02/23 10:35	08/02/23 17:08	
CBN	< LOQ	0.0622	%		08/02/23 10:35	08/02/23 17:08	
CBG	< LOQ	0.0164	%		08/02/23 10:35	08/02/23 17:08	
CBGA	< LOQ	0.0164	%		08/02/23 10:35	08/02/23 17:08	
CBC	< LOQ	0.0186	%		08/02/23 10:35	08/02/23 17:08	

Reference(2331030-SRM1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
THCA	109	0.0002	%	90-110	08/02/23 10:35	08/02/23 17:31	
delta 9-THC	95.9	0.0002	%	90-110	08/02/23 10:35	08/02/23 17:31	
delta 8-THC	91.8	0.0466	%	90-110	08/02/23 10:35	08/02/23 17:31	
CBD	96.9	0.0002	%	90-110	08/02/23 10:35	08/02/23 17:31	
CBDA	95.3	0.0002	%	90-110	08/02/23 10:35	08/02/23 17:31	

Pesticide Analysis

Batch: 2331032 - 202

Blank(2331032-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Abamectin	< LOQ	0.1	ppm		08/02/23 10:51	08/03/23 02:33	
Acephate	< LOQ	0.1	ppm		08/02/23 10:51	08/03/23 02:33	
Acequinocyl	< LOQ	0.5	ppm		08/02/23 10:51	08/03/23 02:33	
Acetamiprid	< LOQ	0.1	ppm		08/02/23 10:51	08/03/23 02:33	
Aldicarb	< LOQ	0.1	ppm		08/02/23 10:51	08/03/23 02:33	
Azoxystrobin	< LOQ	0.1	ppm		08/02/23 10:51	08/03/23 02:33	
Bifenazate	< LOQ	0.1	ppm		08/02/23 10:51	08/03/23 02:33	
Bifenthrin	< LOQ	0.1	ppm		08/02/23 10:51	08/03/23 02:33	
Boscalid	< LOQ	0.1	ppm		08/02/23 10:51	08/02/23 18:21	
Carbaryl	< LOQ	0.1	ppm		08/02/23 10:51	08/03/23 02:33	
Carbofuran	< LOQ	0.1	ppm		08/02/23 10:51	08/03/23 02:33	
Chlorantraniliprole	< LOQ	0.1	ppm		08/02/23 10:51	08/03/23 02:33	
Chlorfenapyr	< LOQ	0.1	ppm		08/02/23 10:51	08/02/23 18:21	



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Quality Control Pesticide Analysis (Continued)

Batch: 2331032 - 202 (Continued)

Blank(2331032-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Chlorpyrifos	< LOQ	0.1	ppm		08/02/23 10:51	08/03/23 02:33	
Clofentezine	< LOQ	0.1	ppm		08/02/23 10:51	08/03/23 02:33	
Daminozide	< LOQ	0.5	ppm		08/02/23 10:51	08/03/23 02:33	
Cyfluthrin	< LOQ	0.5	ppm		08/02/23 10:51	08/02/23 18:21	
Diazinon	< LOQ	0.1	ppm		08/02/23 10:51	08/03/23 02:33	
Cypermethrin	< LOQ	0.5	ppm		08/02/23 10:51	08/02/23 18:21	
Dimethoate	< LOQ	0.1	ppm		08/02/23 10:51	08/03/23 02:33	
Ethoprophos	< LOQ	0.1	ppm		08/02/23 10:51	08/03/23 02:33	
Etofenprox	< LOQ	0.1	ppm		08/02/23 10:51	08/03/23 02:33	
Etoxazole	< LOQ	0.1	ppm		08/02/23 10:51	08/03/23 02:33	
Fenoxycarb	< LOQ	0.1	ppm		08/02/23 10:51	08/03/23 02:33	
Fenpyroximate	< LOQ	0.1	ppm		08/02/23 10:51	08/03/23 02:33	
Flonicamid	< LOQ	0.1	ppm		08/02/23 10:51	08/03/23 02:33	
Hexythiazox	< LOQ	0.1	ppm		08/02/23 10:51	08/03/23 02:33	
Imazalil	< LOQ	0.1	ppm		08/02/23 10:51	08/03/23 02:33	
Fipronil	< LOQ	0.1	ppm		08/02/23 10:51	08/02/23 18:21	
Imidacloprid	< LOQ	0.1	ppm		08/02/23 10:51	08/03/23 02:33	
Fludioxonil	< LOQ	0.1	ppm		08/02/23 10:51	08/02/23 18:21	
Metalaxyl	< LOQ	0.1	ppm		08/02/23 10:51	08/03/23 02:33	
Methiocarb	< LOQ	0.1	ppm		08/02/23 10:51	08/03/23 02:33	
Methomyl	< LOQ	0.1	ppm		08/02/23 10:51	08/03/23 02:33	
Myclobutanil	< LOQ	0.1	ppm		08/02/23 10:51	08/03/23 02:33	
Kresoxim-methyl	< LOQ	0.1	ppm		08/02/23 10:51	08/02/23 18:21	
Naled	< LOQ	0.1	ppm		08/02/23 10:51	08/03/23 02:33	
Malathion	< LOQ	0.1	ppm		08/02/23 10:51	08/02/23 18:21	
Oxamyl	< LOQ	0.1	ppm		08/02/23 10:51	08/03/23 02:33	
Paclobutrazol	< LOQ	0.1	ppm		08/02/23 10:51	08/03/23 02:33	
Permethrins	< LOQ	0.1	ppm		08/02/23 10:51	08/03/23 02:33	
Methyl parathion	< LOQ	0.1	ppm		08/02/23 10:51	08/02/23 18:21	
MGK-264	< LOQ	0.1	ppm		08/02/23 10:51	08/02/23 18:21	
Phosmet	< LOQ	0.1	ppm		08/02/23 10:51	08/03/23 02:33	
Piperonyl butoxide	< LOQ	0.9	ppm		08/02/23 10:51	08/03/23 02:33	
Prallethrin	< LOQ	0.1	ppm		08/02/23 10:51	08/03/23 02:33	
Propoxur	< LOQ	0.1	ppm		08/02/23 10:51	08/03/23 02:33	
Pyrethrins	< LOQ	0.5	ppm		08/02/23 10:51	08/03/23 02:33	
Pyridaben	< LOQ	0.1	ppm		08/02/23 10:51	08/03/23 02:33	
Propiconazole	< LOQ	0.1	ppm		08/02/23 10:51	08/02/23 18:21	
Spinosad	< LOQ	0.1	ppm		08/02/23 10:51	08/03/23 02:33	



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Quality Control Pesticide Analysis (Continued)

Batch: 2331032 - 202 (Continued)

Blank(2331032-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Spiromesifen	< LOQ	0.1	ppm		08/02/23 10:51	08/03/23 02:33	
Spirotetramat	< LOQ	0.1	ppm		08/02/23 10:51	08/03/23 02:33	
Spiroxamine	< LOQ	0.1	ppm		08/02/23 10:51	08/03/23 02:33	
Tebuconazole	< LOQ	0.1	ppm		08/02/23 10:51	08/03/23 02:33	
Thiacloprid	< LOQ	0.1	ppm		08/02/23 10:51	08/03/23 02:33	
Thiamethoxam	< LOQ	0.1	ppm		08/02/23 10:51	08/03/23 02:33	
Trifloxystrobin	< LOQ	0.1	ppm		08/02/23 10:51	08/03/23 02:33	
DDVP (Dichlorvos)	< LOQ	0.1	ppm		08/02/23 10:51	08/03/23 02:33	

LCS(2331032-BS1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Abamectin	72.7	0.1	ppm	50-150	08/02/23 10:51	08/03/23 02:56	
Acephate	111	0.1	ppm	60-120	08/02/23 10:51	08/03/23 02:56	
Acequinocyl	148	0.5	ppm	40-160	08/02/23 10:51	08/03/23 02:56	
Acetamiprid	103	0.1	ppm	60-120	08/02/23 10:51	08/03/23 02:56	
Aldicarb	108	0.1	ppm	60-120	08/02/23 10:51	08/03/23 02:56	
Azoxystrobin	106	0.1	ppm	60-120	08/02/23 10:51	08/03/23 02:56	
Bifenazate	113	0.1	ppm	60-120	08/02/23 10:51	08/03/23 02:56	
Bifenthrin	163	0.1	ppm	50-150	08/02/23 10:51	08/03/23 02:56	BSH
Boscalid	65.6	0.1	ppm	60-120	08/02/23 10:51	08/02/23 18:43	
Carbaryl	103	0.1	ppm	60-120	08/02/23 10:51	08/03/23 02:56	
Carbofuran	101	0.1	ppm	60-120	08/02/23 10:51	08/03/23 02:56	
Chlorantraniliprole	151	0.1	ppm	60-120	08/02/23 10:51	08/03/23 02:56	BSH
Chlorfenapyr	85.3	0.1	ppm	60-120	08/02/23 10:51	08/02/23 18:43	
Chlorpyrifos	161	0.1	ppm	60-120	08/02/23 10:51	08/03/23 02:56	BSH
Clofentezine	112	0.1	ppm	60-120	08/02/23 10:51	08/03/23 02:56	
Daminozide	1480	0.5	ppm	60-120	08/02/23 10:51	08/03/23 02:56	BSH
Cyfluthrin	111	0.5	ppm	50-150	08/02/23 10:51	08/02/23 18:43	
Diazinon	108	0.1	ppm	60-120	08/02/23 10:51	08/03/23 02:56	
Cypermethrin	63.5	0.5	ppm	50-150	08/02/23 10:51	08/02/23 18:43	
Dimethoate	102	0.1	ppm	60-120	08/02/23 10:51	08/03/23 02:56	
Ethoprophos	105	0.1	ppm	60-120	08/02/23 10:51	08/03/23 02:56	
Etofenprox	127	0.1	ppm	50-150	08/02/23 10:51	08/03/23 02:56	
Etoxazole	134	0.1	ppm	60-120	08/02/23 10:51	08/03/23 02:56	BSH
Fenoxycarb	111	0.1	ppm	60-120	08/02/23 10:51	08/03/23 02:56	
Fenpyroximate	123	0.1	ppm	60-120	08/02/23 10:51	08/03/23 02:56	BSH
Flonicamid	113	0.1	ppm	60-120	08/02/23 10:51	08/03/23 02:56	
Hexythiazox	193	0.1	ppm	60-120	08/02/23 10:51	08/03/23 02:56	BSH
Imazalil	133	0.1	ppm	60-120	08/02/23 10:51	08/03/23 02:56	BSH



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Quality Control Pesticide Analysis (Continued)

Batch: 2331032 - 202 (Continued)

LCS(2331032-BS1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Fipronil	79.0	0.1	ppm	60-120	08/02/23 10:51	08/02/23 18:43	
Imidacloprid	111	0.1	ppm	60-120	08/02/23 10:51	08/03/23 02:56	
Fludioxonil	80.8	0.1	ppm	50-150	08/02/23 10:51	08/02/23 18:43	
Metalaxyl	105	0.1	ppm	60-120	08/02/23 10:51	08/03/23 02:56	
Methiocarb	103	0.1	ppm	60-120	08/02/23 10:51	08/03/23 02:56	
Methomyl	106	0.1	ppm	60-120	08/02/23 10:51	08/03/23 02:56	
Myclobutanil	114	0.1	ppm	60-120	08/02/23 10:51	08/03/23 02:56	
Kresoxim-methyl	95.5	0.1	ppm	60-120	08/02/23 10:51	08/02/23 18:43	
Naled	103	0.1	ppm	50-150	08/02/23 10:51	08/03/23 02:56	
Malathion	110	0.1	ppm	60-120	08/02/23 10:51	08/02/23 18:43	
Oxamyl	97.0	0.1	ppm	60-120	08/02/23 10:51	08/03/23 02:56	
Paclobutrazol	107	0.1	ppm	60-120	08/02/23 10:51	08/03/23 02:56	
Permethrins	116	0.1	ppm	50-150	08/02/23 10:51	08/03/23 02:56	
Methyl parathion	66.8	0.1	ppm	50-150	08/02/23 10:51	08/02/23 18:43	
MGK-264	98.5	0.1	ppm	50-150	08/02/23 10:51	08/02/23 18:43	
Phosmet	111	0.1	ppm	50-150	08/02/23 10:51	08/03/23 02:56	
Piperonyl butoxide	374	0.9	ppm	60-120	08/02/23 10:51	08/03/23 02:56	BSH
Prallethrin	111	0.1	ppm	60-120	08/02/23 10:51	08/03/23 02:56	
Propoxur	104	0.1	ppm	60-120	08/02/23 10:51	08/03/23 02:56	
Pyrethrins	97.1	0.5	ppm	60-120	08/02/23 10:51	08/03/23 02:56	
Pyridaben	121	0.1	ppm	50-150	08/02/23 10:51	08/03/23 02:56	
Propiconazole	99.2	0.1	ppm	60-120	08/02/23 10:51	08/02/23 18:43	
Spinosad	118	0.1	ppm	50-150	08/02/23 10:51	08/03/23 02:56	
Spiromesifen	152	0.1	ppm	60-120	08/02/23 10:51	08/03/23 02:56	BSH
Spirotetramat	113	0.1	ppm	60-120	08/02/23 10:51	08/03/23 02:56	
Spiroxamine	106	0.1	ppm	60-120	08/02/23 10:51	08/03/23 02:56	
Tebuconazole	112	0.1	ppm	60-120	08/02/23 10:51	08/03/23 02:56	
Thiacloprid	102	0.1	ppm	60-120	08/02/23 10:51	08/03/23 02:56	
Thiamethoxam	104	0.1	ppm	60-120	08/02/23 10:51	08/03/23 02:56	
Trifloxystrobin	103	0.1	ppm	60-120	08/02/23 10:51	08/03/23 02:56	
DDVP (Dichlorvos)	97.4	0.1	ppm	60-120	08/02/23 10:51	08/03/23 02:56	

Solvent Analysis

Batch: 2331029 - 205

Blank(2331029-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Acetone	< LOQ	1000	ppm		08/02/23 10:27	08/03/23 09:39	
Acetonitrile	< LOQ	50.00	ppm		08/02/23 10:27	08/03/23 09:39	



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Chemist - 8/3/2023

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Quality Control Solvent Analysis (Continued)

Batch: 2331029 - 205 (Continued)

Blank(2331029-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Benzene	< LOQ	1.000	ppm		08/02/23 10:27	08/03/23 09:39	
Butanes	< LOQ	1000	ppm		08/02/23 10:27	08/03/23 09:39	
2-Butanol	< LOQ	1000	ppm		08/02/23 10:27	08/03/23 09:39	
Cumene	< LOQ	35.00	ppm		08/02/23 10:27	08/03/23 09:39	
Cyclohexane	< LOQ	50.00	ppm		08/02/23 10:27	08/03/23 09:39	
Dichloromethane	< LOQ	50.00	ppm		08/02/23 10:27	08/03/23 09:39	
1,4-Dioxane	< LOQ	50.00	ppm		08/02/23 10:27	08/03/23 09:39	
Ethanol	< LOQ	50.00	ppm		08/02/23 10:27	08/03/23 09:39	
2-Ethoxyethanol	< LOQ	80.00	ppm		08/02/23 10:27	08/03/23 09:39	
Ethyl acetate	< LOQ	1000	ppm		08/02/23 10:27	08/03/23 09:39	
Ethyl benzene	< LOQ	35.00	ppm		08/02/23 10:27	08/03/23 09:39	
Ethylene glycol	< LOQ	310.0	ppm		08/02/23 10:27	08/03/23 09:39	
Ethylene oxide	< LOQ	25.00	ppm		08/02/23 10:27	08/03/23 09:39	
Ethyl ether	< LOQ	1000	ppm		08/02/23 10:27	08/03/23 09:39	
Heptane	< LOQ	1000	ppm		08/02/23 10:27	08/03/23 09:39	
Hexanes	< LOQ	50.00	ppm		08/02/23 10:27	08/03/23 09:39	
Isopropyl acetate	< LOQ	1000	ppm		08/02/23 10:27	08/03/23 09:39	
Methanol	< LOQ	1000	ppm		08/02/23 10:27	08/03/23 09:39	
Pentanes	< LOQ	1000	ppm		08/02/23 10:27	08/03/23 09:39	
Propane	< LOQ	1000	ppm		08/02/23 10:27	08/03/23 09:39	
2-Propanol (IPA)	< LOQ	1000	ppm		08/02/23 10:27	08/03/23 09:39	
Tetrahydrofuran	< LOQ	50.00	ppm		08/02/23 10:27	08/03/23 09:39	
Toluene	< LOQ	50.00	ppm		08/02/23 10:27	08/03/23 09:39	
Xylenes	< LOQ	50.00	ppm		08/02/23 10:27	08/03/23 09:39	

LCS(2331029-BS1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Acetone	87.8	1000	ppm	60-120	08/02/23 10:27	08/02/23 15:22	
Acetonitrile	88.9	50.00	ppm	60-120	08/02/23 10:27	08/02/23 15:22	
Benzene	90.3	1.000	ppm	60-120	08/02/23 10:27	08/02/23 15:22	
Butanes	78.7	1000	ppm	60-120	08/02/23 10:27	08/02/23 15:22	
2-Butanol	90.5	1000	ppm	60-120	08/02/23 10:27	08/02/23 15:22	
Cumene	88.8	35.00	ppm	60-120	08/02/23 10:27	08/02/23 15:22	
Cyclohexane	88.8	50.00	ppm	60-120	08/02/23 10:27	08/02/23 15:22	
Dichloromethane	89.7	50.00	ppm	60-120	08/02/23 10:27	08/02/23 15:22	
1,4-Dioxane	89.5	50.00	ppm	60-120	08/02/23 10:27	08/02/23 15:22	
2-Ethoxyethanol	90.5	80.00	ppm	60-120	08/02/23 10:27	08/02/23 15:22	
Ethyl acetate	88.6	1000	ppm	60-120	08/02/23 10:27	08/02/23 15:22	
Ethyl benzene	87.2	35.00	ppm	60-120	08/02/23 10:27	08/02/23 15:22	



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Quality Control Solvent Analysis (Continued)

Batch: 2331029 - 205 (Continued)

LCS(2331029-BS1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Ethylene glycol	96.0	310.0	ppm	60-120	08/02/23 10:27	08/02/23 15:22	
Ethylene oxide	84.6	25.00	ppm	60-120	08/02/23 10:27	08/02/23 15:22	
Ethyl ether	87.0	1000	ppm	60-120	08/02/23 10:27	08/02/23 15:22	
Heptane	87.8	1000	ppm	60-120	08/02/23 10:27	08/02/23 15:22	
Hexanes	86.1	50.00	ppm	60-120	08/02/23 10:27	08/02/23 15:22	
Isopropyl acetate	89.1	1000	ppm	60-120	08/02/23 10:27	08/02/23 15:22	
Methanol	63.7	1000	ppm	60-120	08/02/23 10:27	08/02/23 15:22	
Pentanes	84.8	1000	ppm	60-120	08/02/23 10:27	08/02/23 15:22	
Propane	75.0	1000	ppm	60-120	08/02/23 10:27	08/02/23 15:22	
2-Propanol (IPA)	89.2	1000	ppm	60-120	08/02/23 10:27	08/02/23 15:22	
Tetrahydrofuran	88.4	50.00	ppm	60-120	08/02/23 10:27	08/02/23 15:22	
Toluene	90.3	50.00	ppm	60-120	08/02/23 10:27	08/02/23 15:22	

Metals

Batch: 2331013 - 217

Blank(2331013-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Cadmium	< LOQ	0.08	ug/g		08/01/23 09:25	08/02/23 14:26	
Lead	< LOQ	0.08	ug/g		08/01/23 09:25	08/02/23 14:26	
Arsenic	< LOQ	0.08	ug/g		08/01/23 09:25	08/02/23 14:26	
Mercury	< LOQ	0.04	ug/g		08/01/23 09:25	08/02/23 14:26	

LCS(2331013-BS1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Cadmium	98.6	0.08	ug/g	80-115	08/01/23 09:25	08/02/23 14:27	
Lead	104	0.08	ug/g	80-115	08/01/23 09:25	08/02/23 14:27	
Arsenic	95.5	0.08	ug/g	80-115	08/01/23 09:25	08/02/23 14:27	
Mercury	103	0.04	ug/g	80-115	08/01/23 09:25	08/02/23 14:27	



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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

SAMPLE COA



Patrick Hermonson
Chemist - 8/3/2023

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

Report Number: 23-009074/D007.R000
Report Date: 08/07/2023
ORELAP#: OR100028
Purchase Order:
Received: 08/01/23 12:04

Customer:
Product identity: CBD Iso GVL-TST707
Client/Metric ID: .
Laboratory ID: 23-009074-0003

Summary

Microbiology:

Less than LOQ for all analytes.

SAMPLE COA



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

Report Number: 23-009074/D007.R000
Report Date: 08/07/2023
ORELAP#: OR100028
Purchase Order:
Received: 08/01/23 12:04

Customer: United States of America (USA)
Product identity: CBD Iso GVL-TST707
Client/Metric ID: .
Sample Date:
Laboratory ID: 23-009074-0003
Evidence of Cooling: No
Temp: 26.1 °C
Relinquished by: client

Sample Results

Microbiology							
Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status Notes
E.coli	< LOQ		cfu/g	10	2309664	08/05/23 AOAC 991.14 (Petrifilm) ^P	
Total Coliforms	< LOQ		cfu/g	10	2309664	08/05/23 AOAC 991.14 (Petrifilm) ^P	
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2309663	08/05/23 AOAC 2014.05 (RAPID) ^P	
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2309663	08/05/23 AOAC 2014.05 (RAPID) ^P	

SAMPLE COA



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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: 23-009074/D007.R000
Report Date: 08/07/2023
ORELAP#: OR100028
Purchase Order:
Received: 08/01/23 12:04

SAMPLE COA

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.

*SAMPLE

COA*