



CBD ISO GVL-TST529

Sample ID: G3C0015-03 Matrix: Hemp Extracts & Concentrates

Test ID: 5025120

Source ID:

Date Sampled: 03/01/23 Date Accepted: 03/01/23

Harvest/Prod. Date: 02.28.23

GVB Oregon
testing@gvbbiopharma.com

Results at a Glance

Total THC : <LOQ (0.1577%) %

Total CBD : 99.89 %

Pesticides : PASS

Residual Solvent Analysis : PASS

Total Colonies : <LOQ cfu/g PASS

Metals : PASS



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Eric Wendt
Chief Science Officer - 3/5/2023



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Test ID: 5025120

Source ID:

Date Sampled: 03/01/23 Date Accepted: 03/01/23

Harvest/Prod. Date: 02.28.23

GVB Oregon
testing@gvbbiopharma.com

Potency Analysis

Date/Time Extracted: 03/02/23 11:37

Analysis Method/SOP: 215

Batch Identification: 2309054

Cannabinoids	LOQ (%)	% by Wt.	mg/g	Cannabinoids Profile
Total THC	0.1577	< LOQ	< LOQ	<p>Legend: CBD 99.9, Total: 99.9</p>
Total CBD	0.0431	99.89	998.9	
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	99.89	998.9	
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		99.89	998.9	

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.



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Source ID:

Date Sampled: 03/01/23 Date Accepted: 03/01/23

Harvest/Prod. Date: 02.28.23

GVB Oregon
testing@gvbbiopharma.com

Pesticide Analysis in ppm

Date/Time Extracted: 03/02/23 12:40

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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Source ID:

Date Sampled: 03/01/23 Date Accepted: 03/01/23

Harvest/Prod. Date: 02.28.23

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testing@gvbbiopharma.com

Residual Solvents

Date/Time Extracted: 03/02/23 10:23

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	
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: 02.28.23

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Molds and Fungi Screen

Date/Time Extracted: 03/01/23 17:39

Analysis Method/SOP: 301

Total Colonies: < LOQ CFU/g

This is not a doctor's recommendation. A large majority of samples fall within the 1400-8500 range.
Microbial colony counting is not accredited to ORELAP TNI 2009 or ISO 17025:2017 Quality Standards.

Metals by ICPMS

Date/Time Extracted: 03/03/23 10:07

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: 2309054 - 215-Concentrates

Blank(2309054-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
THCA	< LOQ	0.0005	%		03/02/23 11:37	03/02/23 22:43	
delta 9-THC	< LOQ	0.0005	%		03/02/23 11:37	03/02/23 22:43	
delta 8-THC	< LOQ	0.0934	%		03/02/23 11:37	03/02/23 22:43	
THCV	< LOQ	0.1052	%		03/02/23 11:37	03/02/23 22:43	
THCVA	< LOQ	0.0392	%		03/02/23 11:37	03/02/23 22:43	
CBD	< LOQ	0.0005	%		03/02/23 11:37	03/02/23 22:43	
CBDA	< LOQ	0.0005	%		03/02/23 11:37	03/02/23 22:43	
CBDV	< LOQ	0.1040	%		03/02/23 11:37	03/02/23 22:43	
CBDVA	< LOQ	0.0341	%		03/02/23 11:37	03/02/23 22:43	
CBN	< LOQ	0.0622	%		03/02/23 11:37	03/02/23 22:43	
CBG	< LOQ	0.0164	%		03/02/23 11:37	03/02/23 22:43	
CBGA	< LOQ	0.0164	%		03/02/23 11:37	03/02/23 22:43	
CBC	< LOQ	0.0186	%		03/02/23 11:37	03/02/23 22:43	

Reference(2309054-SRM1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
THCA	95.5	0.0002	%	90-110	03/02/23 11:37	03/02/23 23:06	
delta 9-THC	108	0.0002	%	90-110	03/02/23 11:37	03/02/23 23:06	
delta 8-THC	99.7	0.0466	%	90-110	03/02/23 11:37	03/02/23 23:06	
CBD	103	0.0002	%	90-110	03/02/23 11:37	03/02/23 23:06	
CBDA	97.3	0.0002	%	90-110	03/02/23 11:37	03/02/23 23:06	

Pesticide Analysis

Batch: 2309056 - 202

Blank(2309056-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Abamectin	< LOQ	0.1	ppm		03/02/23 12:40	03/04/23 05:23	
Acephate	< LOQ	0.1	ppm		03/02/23 12:40	03/04/23 05:23	
Acequinocyl	< LOQ	0.5	ppm		03/02/23 12:40	03/04/23 05:23	
Acetamiprid	< LOQ	0.1	ppm		03/02/23 12:40	03/04/23 05:23	
Aldicarb	< LOQ	0.1	ppm		03/02/23 12:40	03/04/23 05:23	
Azoxystrobin	< LOQ	0.1	ppm		03/02/23 12:40	03/04/23 05:23	
Bifenazate	< LOQ	0.1	ppm		03/02/23 12:40	03/04/23 05:23	
Bifenthrin	< LOQ	0.1	ppm		03/02/23 12:40	03/04/23 05:23	
Boscalid	< LOQ	0.1	ppm		03/02/23 12:40	03/04/23 01:10	
Carbaryl	< LOQ	0.1	ppm		03/02/23 12:40	03/04/23 05:23	
Carbofuran	< LOQ	0.1	ppm		03/02/23 12:40	03/04/23 05:23	
Chlorantraniliprole	< LOQ	0.1	ppm		03/02/23 12:40	03/04/23 05:23	
Chlorfenapyr	< LOQ	0.1	ppm		03/02/23 12:40	03/04/23 01:10	



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Quality Control Pesticide Analysis (Continued)

Batch: 2309056 - 202 (Continued)

Blank(2309056-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Chlorpyrifos	< LOQ	0.1	ppm		03/02/23 12:40	03/04/23 05:23	
Clofentezine	< LOQ	0.1	ppm		03/02/23 12:40	03/04/23 05:23	
Daminozide	< LOQ	0.5	ppm		03/02/23 12:40	03/04/23 05:23	
Cyfluthrin	< LOQ	0.5	ppm		03/02/23 12:40	03/04/23 01:10	
Diazinon	< LOQ	0.1	ppm		03/02/23 12:40	03/04/23 05:23	
Cypermethrin	< LOQ	0.5	ppm		03/02/23 12:40	03/04/23 01:10	
Dimethoate	< LOQ	0.1	ppm		03/02/23 12:40	03/04/23 05:23	
Ethoprophos	< LOQ	0.1	ppm		03/02/23 12:40	03/04/23 05:23	
Etofenprox	< LOQ	0.1	ppm		03/02/23 12:40	03/04/23 05:23	
Etoxazole	< LOQ	0.1	ppm		03/02/23 12:40	03/04/23 05:23	
Fenoxycarb	< LOQ	0.1	ppm		03/02/23 12:40	03/04/23 05:23	
Fenpyroximate	< LOQ	0.1	ppm		03/02/23 12:40	03/04/23 05:23	
Fonicamid	< LOQ	0.1	ppm		03/02/23 12:40	03/04/23 05:23	
Hexythiazox	< LOQ	0.1	ppm		03/02/23 12:40	03/04/23 05:23	
Imazalil	< LOQ	0.1	ppm		03/02/23 12:40	03/04/23 05:23	
Fipronil	< LOQ	0.1	ppm		03/02/23 12:40	03/04/23 01:10	
Imidacloprid	< LOQ	0.1	ppm		03/02/23 12:40	03/04/23 05:23	
Fludioxonil	< LOQ	0.1	ppm		03/02/23 12:40	03/04/23 01:10	
Metalaxyl	< LOQ	0.1	ppm		03/02/23 12:40	03/04/23 05:23	
Methiocarb	< LOQ	0.1	ppm		03/02/23 12:40	03/04/23 05:23	
Methomyl	< LOQ	0.1	ppm		03/02/23 12:40	03/04/23 05:23	
Myclobutanil	< LOQ	0.1	ppm		03/02/23 12:40	03/04/23 05:23	
Kresoxim-methyl	< LOQ	0.1	ppm		03/02/23 12:40	03/04/23 01:10	
Naled	< LOQ	0.1	ppm		03/02/23 12:40	03/04/23 05:23	
Malathion	< LOQ	0.1	ppm		03/02/23 12:40	03/04/23 01:10	
Oxamyl	< LOQ	0.1	ppm		03/02/23 12:40	03/04/23 05:23	
Paclobutrazol	< LOQ	0.1	ppm		03/02/23 12:40	03/04/23 05:23	
Permethrins	< LOQ	0.1	ppm		03/02/23 12:40	03/04/23 05:23	
Methyl parathion	< LOQ	0.1	ppm		03/02/23 12:40	03/04/23 01:10	
MGK-264	< LOQ	0.1	ppm		03/02/23 12:40	03/04/23 01:10	
Phosmet	< LOQ	0.1	ppm		03/02/23 12:40	03/04/23 05:23	
Piperonyl butoxide	< LOQ	0.9	ppm		03/02/23 12:40	03/04/23 05:23	
Prallethrin	< LOQ	0.1	ppm		03/02/23 12:40	03/04/23 05:23	
Propoxur	< LOQ	0.1	ppm		03/02/23 12:40	03/04/23 05:23	
Pyrethrins	< LOQ	0.5	ppm		03/02/23 12:40	03/04/23 05:23	
Pyridaben	< LOQ	0.1	ppm		03/02/23 12:40	03/04/23 05:23	
Propiconazole	< LOQ	0.1	ppm		03/02/23 12:40	03/04/23 01:10	
Spinosad	< LOQ	0.1	ppm		03/02/23 12:40	03/04/23 05:23	



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Quality Control Pesticide Analysis (Continued)

Batch: 2309056 - 202 (Continued)

Blank(2309056-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Spiromesifen	< LOQ	0.1	ppm		03/02/23 12:40	03/04/23 05:23	
Spirotetramat	< LOQ	0.1	ppm		03/02/23 12:40	03/04/23 05:23	
Spiroxamine	< LOQ	0.1	ppm		03/02/23 12:40	03/04/23 05:23	
Tebuconazole	< LOQ	0.1	ppm		03/02/23 12:40	03/04/23 05:23	
Thiacloprid	< LOQ	0.1	ppm		03/02/23 12:40	03/04/23 05:23	
Thiamethoxam	< LOQ	0.1	ppm		03/02/23 12:40	03/04/23 05:23	
Trifloxystrobin	< LOQ	0.1	ppm		03/02/23 12:40	03/04/23 05:23	
DDVP (Dichlorvos)	< LOQ	0.1	ppm		03/02/23 12:40	03/04/23 05:23	

LCS(2309056-BS1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Abamectin	112	0.1	ppm	50-150	03/02/23 12:40	03/04/23 18:12	
Acephate	119	0.1	ppm	60-120	03/02/23 12:40	03/04/23 18:12	
Acequinocyl	114	0.5	ppm	40-160	03/02/23 12:40	03/04/23 18:12	
Acetamiprid	122	0.1	ppm	60-120	03/02/23 12:40	03/04/23 18:12	BSH
Aldicarb	116	0.1	ppm	60-120	03/02/23 12:40	03/04/23 18:12	
Azoxystrobin	120	0.1	ppm	60-120	03/02/23 12:40	03/04/23 18:12	
Bifenazate	77.7	0.1	ppm	60-120	03/02/23 12:40	03/04/23 18:12	
Bifenthrin	114	0.1	ppm	50-150	03/02/23 12:40	03/04/23 18:12	
Boscalid	115	0.1	ppm	60-120	03/02/23 12:40	03/04/23 01:32	
Carbaryl	118	0.1	ppm	60-120	03/02/23 12:40	03/04/23 18:12	
Carbofuran	115	0.1	ppm	60-120	03/02/23 12:40	03/04/23 18:12	
Chlorantraniliprole	146	0.1	ppm	60-120	03/02/23 12:40	03/04/23 18:12	
Chlorfenapyr	118	0.1	ppm	60-120	03/02/23 12:40	03/04/23 01:32	
Chlorpyrifos	121	0.1	ppm	60-120	03/02/23 12:40	03/04/23 18:12	
Clofentezine	108	0.1	ppm	60-120	03/02/23 12:40	03/04/23 18:12	
Daminozide	490	0.5	ppm	60-120	03/02/23 12:40	03/04/23 18:12	BSH
Cyfluthrin	105	0.5	ppm	50-150	03/02/23 12:40	03/04/23 01:32	
Diazinon	115	0.1	ppm	60-120	03/02/23 12:40	03/04/23 18:12	
Cypermethrin	83.1	0.5	ppm	50-150	03/02/23 12:40	03/04/23 01:32	
Dimethoate	118	0.1	ppm	60-120	03/02/23 12:40	03/04/23 18:12	
Ethoprophos	118	0.1	ppm	60-120	03/02/23 12:40	03/04/23 18:12	
Etofenprox	113	0.1	ppm	50-150	03/02/23 12:40	03/04/23 18:12	
Etoxazole	120	0.1	ppm	60-120	03/02/23 12:40	03/04/23 18:12	
Fenoxycarb	113	0.1	ppm	60-120	03/02/23 12:40	03/04/23 18:12	
Fenpyroximate	111	0.1	ppm	60-120	03/02/23 12:40	03/04/23 18:12	
Flonicamid	114	0.1	ppm	60-120	03/02/23 12:40	03/04/23 18:12	
Hexythiazox	95.5	0.1	ppm	60-120	03/02/23 12:40	03/04/23 18:12	
Imazalil	115	0.1	ppm	60-120	03/02/23 12:40	03/04/23 18:12	



Eric Wendt
Chief Science Officer - 3/5/2023



Quality Control Pesticide Analysis (Continued)

Batch: 2309056 - 202 (Continued)

LCS(2309056-BS1)									
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analized	Notes		
Fipronil	131	0.1	ppm	60-120	03/02/23 12:40	03/04/23 01:32	BSH		
Imidacloprid	121	0.1	ppm	60-120	03/02/23 12:40	03/04/23 18:12	BSH		
Fludioxonil	92.3	0.1	ppm	50-150	03/02/23 12:40	03/04/23 01:32			
Metalaxyl	118	0.1	ppm	60-120	03/02/23 12:40	03/04/23 18:12			
Methiocarb	119	0.1	ppm	60-120	03/02/23 12:40	03/04/23 18:12			
Methomyl	117	0.1	ppm	60-120	03/02/23 12:40	03/04/23 18:12			
Myclobutanil	117	0.1	ppm	60-120	03/02/23 12:40	03/04/23 18:12			
Kresoxim-methyl	123	0.1	ppm	60-120	03/02/23 12:40	03/04/23 01:32	BSH		
Naled	113	0.1	ppm	50-150	03/02/23 12:40	03/04/23 18:12			
Malathion	113	0.1	ppm	60-120	03/02/23 12:40	03/04/23 01:32			
Oxamyl	115	0.1	ppm	60-120	03/02/23 12:40	03/04/23 18:12			
Paclobutrazol	112	0.1	ppm	60-120	03/02/23 12:40	03/04/23 18:12			
Permethrins	110	0.1	ppm	50-150	03/02/23 12:40	03/04/23 18:12			
Methyl parathion	112	0.1	ppm	50-150	03/02/23 12:40	03/04/23 01:32			
MGK-264	113	0.1	ppm	50-150	03/02/23 12:40	03/04/23 01:32			
Phosmet	121	0.1	ppm	50-150	03/02/23 12:40	03/04/23 18:12			
Piperonyl butoxide	117	0.9	ppm	60-120	03/02/23 12:40	03/04/23 18:12			
Prallethrin	112	0.1	ppm	60-120	03/02/23 12:40	03/04/23 18:12			
Propoxur	115	0.1	ppm	60-120	03/02/23 12:40	03/04/23 18:12			
Pyrethrins	98.9	0.5	ppm	60-120	03/02/23 12:40	03/04/23 18:12			
Pyridaben	119	0.1	ppm	50-150	03/02/23 12:40	03/04/23 18:12			
Propiconazole	119	0.1	ppm	60-120	03/02/23 12:40	03/04/23 01:32			
Spinosad	108	0.1	ppm	50-150	03/02/23 12:40	03/04/23 18:12			
Spiromesifen	108	0.1	ppm	60-120	03/02/23 12:40	03/04/23 18:12			
Spirotetramat	114	0.1	ppm	60-120	03/02/23 12:40	03/04/23 18:12			
Spiroxamine	94.0	0.1	ppm	60-120	03/02/23 12:40	03/04/23 18:12			
Tebuconazole	120	0.1	ppm	60-120	03/02/23 12:40	03/04/23 18:12			
Thiacloprid	119	0.1	ppm	60-120	03/02/23 12:40	03/04/23 18:12			
Thiamethoxam	119	0.1	ppm	60-120	03/02/23 12:40	03/04/23 18:12			
Trifloxystrobin	120	0.1	ppm	60-120	03/02/23 12:40	03/04/23 18:12			
DDVP (Dichlorvos)	121	0.1	ppm	60-120	03/02/23 12:40	03/04/23 18:12	BSH		

Solvent Analysis

Batch: 2309050 - 205

Blank(2309050-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analized	Notes
Acetone	< LOQ	1000	ppm		03/02/23 10:23	03/04/23 08:54	
Acetonitrile	< LOQ	50.00	ppm		03/02/23 10:23	03/04/23 08:54	



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Quality Control Solvent Analysis (Continued)

Batch: 2309050 - 205 (Continued)

Blank(2309050-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Benzene	< LOQ	1.000	ppm		03/02/23 10:23	03/04/23 08:54	
Butanes	< LOQ	1000	ppm		03/02/23 10:23	03/04/23 08:54	
2-Butanol	< LOQ	1000	ppm		03/02/23 10:23	03/04/23 08:54	
Cumene	< LOQ	35.00	ppm		03/02/23 10:23	03/04/23 08:54	
Cyclohexane	< LOQ	50.00	ppm		03/02/23 10:23	03/04/23 08:54	
Dichloromethane	< LOQ	50.00	ppm		03/02/23 10:23	03/04/23 08:54	
1,4-Dioxane	< LOQ	50.00	ppm		03/02/23 10:23	03/04/23 08:54	
2-Ethoxyethanol	< LOQ	80.00	ppm		03/02/23 10:23	03/04/23 08:54	
Ethyl acetate	< LOQ	1000	ppm		03/02/23 10:23	03/04/23 08:54	
Ethyl benzene	< LOQ	35.00	ppm		03/02/23 10:23	03/04/23 08:54	
Ethylene glycol	< LOQ	310.0	ppm		03/02/23 10:23	03/04/23 08:54	
Ethylene oxide	< LOQ	25.00	ppm		03/02/23 10:23	03/04/23 08:54	
Ethyl ether	< LOQ	1000	ppm		03/02/23 10:23	03/04/23 08:54	
Heptane	< LOQ	1000	ppm		03/02/23 10:23	03/04/23 08:54	
Hexanes	< LOQ	50.00	ppm		03/02/23 10:23	03/04/23 08:54	
Isopropyl acetate	< LOQ	1000	ppm		03/02/23 10:23	03/04/23 08:54	
Methanol	< LOQ	1000	ppm		03/02/23 10:23	03/04/23 08:54	
Pentanes	< LOQ	1000	ppm		03/02/23 10:23	03/04/23 08:54	
Propane	< LOQ	1000	ppm		03/02/23 10:23	03/04/23 08:54	
2-Propanol (IPA)	< LOQ	1000	ppm		03/02/23 10:23	03/04/23 08:54	
Tetrahydrofuran	< LOQ	50.00	ppm		03/02/23 10:23	03/04/23 08:54	
Toluene	< LOQ	50.00	ppm		03/02/23 10:23	03/04/23 08:54	
Xylenes	< LOQ	50.00	ppm		03/02/23 10:23	03/04/23 08:54	

LCS(2309050-BS1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Acetone	98.9	1000	ppm	60-120	03/02/23 10:23	03/02/23 22:45	
Acetonitrile	92.4	50.00	ppm	60-120	03/02/23 10:23	03/02/23 22:45	
Benzene	98.2	1.000	ppm	60-120	03/02/23 10:23	03/02/23 22:45	
Butanes	86.7	1000	ppm	60-120	03/02/23 10:23	03/02/23 22:45	
2-Butanol	87.7	1000	ppm	60-120	03/02/23 10:23	03/02/23 22:45	
Cumene	78.0	35.00	ppm	60-120	03/02/23 10:23	03/02/23 22:45	
Cyclohexane	102	50.00	ppm	60-120	03/02/23 10:23	03/02/23 22:45	
Dichloromethane	94.3	50.00	ppm	60-120	03/02/23 10:23	03/02/23 22:45	
1,4-Dioxane	87.4	50.00	ppm	60-120	03/02/23 10:23	03/02/23 22:45	
2-Ethoxyethanol	71.6	80.00	ppm	60-120	03/02/23 10:23	03/02/23 22:45	
Ethyl acetate	98.7	1000	ppm	60-120	03/02/23 10:23	03/02/23 22:45	
Ethyl benzene	88.7	35.00	ppm	60-120	03/02/23 10:23	03/02/23 22:45	
Ethylene glycol	68.8	310.0	ppm	60-120	03/02/23 10:23	03/02/23 22:45	BSL



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Quality Control Solvent Analysis (Continued)

Batch: 2309050 - 205 (Continued)

LCS(2309050-BS1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Ethylene oxide	101	25.00	ppm	60-120	03/02/23 10:23	03/02/23 22:45	
Ethyl ether	101	1000	ppm	60-120	03/02/23 10:23	03/02/23 22:45	
Heptane	97.4	1000	ppm	60-120	03/02/23 10:23	03/02/23 22:45	
Hexanes	101	50.00	ppm	60-120	03/02/23 10:23	03/02/23 22:45	
Isopropyl acetate	96.6	1000	ppm	60-120	03/02/23 10:23	03/02/23 22:45	
Methanol	93.9	1000	ppm	60-120	03/02/23 10:23	03/02/23 22:45	
Pentanes	94.2	1000	ppm	60-120	03/02/23 10:23	03/02/23 22:45	
Propane	75.1	1000	ppm	60-120	03/02/23 10:23	03/02/23 22:45	
2-Propanol (IPA)	91.2	1000	ppm	60-120	03/02/23 10:23	03/02/23 22:45	
Tetrahydrofuran	93.9	50.00	ppm	60-120	03/02/23 10:23	03/02/23 22:45	
Toluene	92.3	50.00	ppm	60-120	03/02/23 10:23	03/02/23 22:45	

Mold and Fungi

Batch: 2309046 - 301

Blank(2309046-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Molds and Fungi	< LOQ	10.0	cfu/g		03/01/23 17:39	03/03/23 09:53	

Blank(2309046-BLK2)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Molds and Fungi	< LOQ	10.0	cfu/g		03/01/23 17:39	03/03/23 09:53	

Batch: 2309066 - 217

Blank(2309066-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Cadmium	< LOQ	0.08	ug/g		03/03/23 10:07	03/03/23 15:17	
Lead	< LOQ	0.08	ug/g		03/03/23 10:07	03/03/23 15:17	
Arsenic	< LOQ	0.08	ug/g		03/03/23 10:07	03/03/23 15:17	
Mercury	< LOQ	0.04	ug/g		03/03/23 10:07	03/03/23 15:17	

LCS(2309066-BS1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Cadmium	97.6	0.08	ug/g	80-115	03/03/23 10:07	03/03/23 15:19	
Lead	101	0.08	ug/g	80-115	03/03/23 10:07	03/03/23 15:19	
Arsenic	101	0.08	ug/g	80-115	03/03/23 10:07	03/03/23 15:19	
Mercury	96.7	0.04	ug/g	80-115	03/03/23 10:07	03/03/23 15:19	



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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



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Chief Science Officer - 3/5/2023

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This is for informational testing and is not compliance testing. Lab results apply to the sample as received.