



CBN Iso GVL-TST644

Sample ID: G3E0326-01 Matrix: Hemp Extracts & Concentrates

Test ID: 5025010

Source ID:

Date Sampled: 05/23/23 Date Accepted: 05/23/23

Harvest/Prod. Date: 05.19.2023

GVB Oregon
info@gvbbiopharma.com

Results at a Glance

Total THC : <LOQ (0.1577%) %

Total CBD : <LOQ (0.0431%) %

CBN : 99.85 % PASS

Pesticides : PASS

Residual Solvent Analysis : PASS

Total Colonies : <LOQ cfu/g PASS



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Eric Wendt
Chief Science Officer - 5/29/2023



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Potency Analysis by HPLC

Date/Time Extracted: 05/24/23 12:31

Analysis Method/SOP: 215

Batch Identification: 2321039

Cannabinoids	LOQ (%)	% by Wt.	mg/g	Cannabinoids Profile
Total THC	0.1577	< LOQ	< LOQ	<p>Legend: CBN 99.8, Total: 99.8</p>
Total CBD	0.0431	< LOQ	< LOQ	
THCA	0.0005	< LOQ	< LOQ	
delta 9-THC	0.0005	< LOQ	< LOQ	
delta 8-THC	0.0934	< LOQ	< LOQ	
THCV	0.1052	< LOQ	< LOQ	
THCVA	0.0392	< LOQ	< LOQ	
CBD	0.0005	< LOQ	< LOQ	
CBDA	0.0005	< LOQ	< LOQ	
CBDV	0.1040	< LOQ	< LOQ	
CBDVA	0.0341	< LOQ	< LOQ	
CBN	0.0622	99.85	998.5	
CBG	0.0164	< LOQ	< LOQ	
CBGA	0.0164	< LOQ	< LOQ	
CBC	0.0186	< LOQ	< LOQ	
Total Cannabinoids		99.85	998.5	

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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Pesticide Analysis by LCMSMS and GCMSMS

Date/Time Extracted: 05/24/23 11:17

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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Chief Science Officer - 5/29/2023

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Harvest/Prod. Date: 05.19.2023

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Residual Solvents by GCMS-HS

Date/Time Extracted: 05/24/23 10:52

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	88.54	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: 05.19.2023

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Molds and Fungi Screen

Date/Time Extracted: 05/24/23 11:17

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.



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Quality Control Potency

Batch: 2321039 - 215-Concentrates

Blank(2321039-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
THCA	< LOQ	0.0005	%		05/24/23 12:31	05/24/23 20:36	
delta 9-THC	< LOQ	0.0005	%		05/24/23 12:31	05/24/23 20:36	
delta 8-THC	< LOQ	0.0934	%		05/24/23 12:31	05/24/23 20:36	
THCV	< LOQ	0.1052	%		05/24/23 12:31	05/24/23 20:36	
THCVA	< LOQ	0.0392	%		05/24/23 12:31	05/24/23 20:36	
CBD	< LOQ	0.0005	%		05/24/23 12:31	05/24/23 20:36	
CBDA	< LOQ	0.0005	%		05/24/23 12:31	05/24/23 20:36	
CBDV	< LOQ	0.1040	%		05/24/23 12:31	05/24/23 20:36	
CBDVA	< LOQ	0.0341	%		05/24/23 12:31	05/24/23 20:36	
CBN	< LOQ	0.0622	%		05/24/23 12:31	05/24/23 20:36	
CBG	< LOQ	0.0164	%		05/24/23 12:31	05/24/23 20:36	
CBGA	< LOQ	0.0164	%		05/24/23 12:31	05/24/23 20:36	
CBC	< LOQ	0.0186	%		05/24/23 12:31	05/24/23 20:36	

Reference(2321039-SRM1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
THCA	98.5	0.0003	%	90-110	05/24/23 12:31	05/24/23 20:58	
delta 9-THC	108	0.0003	%	90-110	05/24/23 12:31	05/24/23 20:58	
delta 8-THC	100	0.0471	%	90-110	05/24/23 12:31	05/24/23 20:58	
CBD	109	0.0003	%	90-110	05/24/23 12:31	05/24/23 20:58	
CBDA	98.1	0.0003	%	90-110	05/24/23 12:31	05/24/23 20:58	

Pesticide Analysis

Batch: 2321034 - 202

Blank(2321034-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Abamectin	< LOQ	0.1	ppm		05/24/23 11:17	05/24/23 15:39	
Acephate	< LOQ	0.1	ppm		05/24/23 11:17	05/24/23 15:39	
Acequinocyl	< LOQ	0.5	ppm		05/24/23 11:17	05/24/23 15:39	
Acetamiprid	< LOQ	0.1	ppm		05/24/23 11:17	05/24/23 15:39	
Aldicarb	< LOQ	0.1	ppm		05/24/23 11:17	05/24/23 15:39	
Azoxystrobin	< LOQ	0.1	ppm		05/24/23 11:17	05/24/23 15:39	
Bifenazate	< LOQ	0.1	ppm		05/24/23 11:17	05/24/23 15:39	
Bifenthrin	< LOQ	0.1	ppm		05/24/23 11:17	05/24/23 15:39	
Boscalid	< LOQ	0.1	ppm		05/24/23 11:17	05/24/23 23:25	
Carbaryl	< LOQ	0.1	ppm		05/24/23 11:17	05/24/23 15:39	
Carbofuran	< LOQ	0.1	ppm		05/24/23 11:17	05/24/23 15:39	
Chlorantraniliprole	< LOQ	0.1	ppm		05/24/23 11:17	05/24/23 15:39	
Chlorfenapyr	< LOQ	0.1	ppm		05/24/23 11:17	05/24/23 23:25	



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Quality Control Pesticide Analysis (Continued)

Batch: 2321034 - 202 (Continued)

Blank(2321034-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Chlorpyrifos	< LOQ	0.1	ppm		05/24/23 11:17	05/24/23 15:39	
Clofentezine	< LOQ	0.1	ppm		05/24/23 11:17	05/24/23 15:39	
Daminozide	< LOQ	0.5	ppm		05/24/23 11:17	05/24/23 15:39	
Cyfluthrin	< LOQ	0.5	ppm		05/24/23 11:17	05/24/23 23:25	
Diazinon	< LOQ	0.1	ppm		05/24/23 11:17	05/24/23 15:39	
Cypermethrin	< LOQ	0.5	ppm		05/24/23 11:17	05/24/23 23:25	
Dimethoate	< LOQ	0.1	ppm		05/24/23 11:17	05/24/23 15:39	
Ethoprophos	< LOQ	0.1	ppm		05/24/23 11:17	05/24/23 15:39	
Etofenprox	< LOQ	0.1	ppm		05/24/23 11:17	05/24/23 15:39	
Etoxazole	< LOQ	0.1	ppm		05/24/23 11:17	05/24/23 15:39	
Fenoxycarb	< LOQ	0.1	ppm		05/24/23 11:17	05/24/23 15:39	
Fenpyroximate	< LOQ	0.1	ppm		05/24/23 11:17	05/24/23 15:39	
Fonicamid	< LOQ	0.1	ppm		05/24/23 11:17	05/24/23 15:39	
Hexythiazox	< LOQ	0.1	ppm		05/24/23 11:17	05/24/23 15:39	
Imazalil	< LOQ	0.1	ppm		05/24/23 11:17	05/24/23 15:39	
Fipronil	< LOQ	0.1	ppm		05/24/23 11:17	05/24/23 23:25	
Imidacloprid	< LOQ	0.1	ppm		05/24/23 11:17	05/24/23 15:39	
Fludioxonil	< LOQ	0.1	ppm		05/24/23 11:17	05/24/23 23:25	
Metalaxyl	< LOQ	0.1	ppm		05/24/23 11:17	05/24/23 15:39	
Methiocarb	< LOQ	0.1	ppm		05/24/23 11:17	05/24/23 15:39	
Methomyl	< LOQ	0.1	ppm		05/24/23 11:17	05/24/23 15:39	
Myclobutanil	< LOQ	0.1	ppm		05/24/23 11:17	05/24/23 15:39	
Kresoxim-methyl	< LOQ	0.1	ppm		05/24/23 11:17	05/24/23 23:25	
Naled	< LOQ	0.1	ppm		05/24/23 11:17	05/24/23 15:39	
Malathion	< LOQ	0.1	ppm		05/24/23 11:17	05/24/23 23:25	
Oxamyl	< LOQ	0.1	ppm		05/24/23 11:17	05/24/23 15:39	
Paclobutrazol	< LOQ	0.1	ppm		05/24/23 11:17	05/24/23 15:39	
Permethrins	< LOQ	0.1	ppm		05/24/23 11:17	05/24/23 15:39	
Methyl parathion	< LOQ	0.1	ppm		05/24/23 11:17	05/24/23 23:25	
MGK-264	< LOQ	0.1	ppm		05/24/23 11:17	05/24/23 23:25	
Phosmet	< LOQ	0.1	ppm		05/24/23 11:17	05/24/23 15:39	
Piperonyl butoxide	< LOQ	0.9	ppm		05/24/23 11:17	05/24/23 15:39	
Prallethrin	< LOQ	0.1	ppm		05/24/23 11:17	05/24/23 15:39	
Propoxur	< LOQ	0.1	ppm		05/24/23 11:17	05/24/23 15:39	
Pyrethrins	< LOQ	0.5	ppm		05/24/23 11:17	05/24/23 15:39	
Pyridaben	< LOQ	0.1	ppm		05/24/23 11:17	05/24/23 15:39	
Propiconazole	< LOQ	0.1	ppm		05/24/23 11:17	05/24/23 23:25	
Spinosad	< LOQ	0.1	ppm		05/24/23 11:17	05/24/23 15:39	



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Quality Control Pesticide Analysis (Continued)

Batch: 2321034 - 202 (Continued)

Blank(2321034-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Spiromesifen	< LOQ	0.1	ppm		05/24/23 11:17	05/24/23 15:39	
Spirotetramat	< LOQ	0.1	ppm		05/24/23 11:17	05/24/23 15:39	
Spiroxamine	< LOQ	0.1	ppm		05/24/23 11:17	05/24/23 15:39	
Tebuconazole	< LOQ	0.1	ppm		05/24/23 11:17	05/24/23 15:39	
Thiacloprid	< LOQ	0.1	ppm		05/24/23 11:17	05/24/23 15:39	
Thiamethoxam	< LOQ	0.1	ppm		05/24/23 11:17	05/24/23 15:39	
Trifloxystrobin	< LOQ	0.1	ppm		05/24/23 11:17	05/24/23 15:39	
DDVP (Dichlorvos)	< LOQ	0.1	ppm		05/24/23 11:17	05/24/23 15:39	

LCS(2321034-BS1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Abamectin	120	0.1	ppm	50-150	05/24/23 11:17	05/24/23 16:02	
Acephate	123	0.1	ppm	60-120	05/24/23 11:17	05/24/23 16:02	BSH
Acequinocyl	87.6	0.5	ppm	40-160	05/24/23 11:17	05/24/23 16:02	
Acetamiprid	108	0.1	ppm	60-120	05/24/23 11:17	05/24/23 16:02	
Aldicarb	72.4	0.1	ppm	60-120	05/24/23 11:17	05/24/23 16:02	
Azoxystrobin	102	0.1	ppm	60-120	05/24/23 11:17	05/24/23 16:02	
Bifenazate	99.2	0.1	ppm	60-120	05/24/23 11:17	05/24/23 16:02	
Bifenthrin	85.7	0.1	ppm	50-150	05/24/23 11:17	05/24/23 16:02	
Boscalid	93.4	0.1	ppm	60-120	05/24/23 11:17	05/24/23 23:47	
Carbaryl	125	0.1	ppm	60-120	05/24/23 11:17	05/24/23 16:02	BSH
Carbofuran	104	0.1	ppm	60-120	05/24/23 11:17	05/24/23 16:02	
Chlorantraniliprole	120	0.1	ppm	60-120	05/24/23 11:17	05/24/23 16:02	
Chlorfenapyr	136	0.1	ppm	60-120	05/24/23 11:17	05/24/23 23:47	BSH
Chlorpyrifos	113	0.1	ppm	60-120	05/24/23 11:17	05/24/23 16:02	
Clofentezine	101	0.1	ppm	60-120	05/24/23 11:17	05/24/23 16:02	
Cypermethrin	99.6	0.5	ppm	50-150	05/24/23 11:17	05/24/23 16:02	
Daminozide	164	0.5	ppm	60-120	05/24/23 11:17	05/24/23 16:02	BSH
Cyfluthrin	129	0.5	ppm	50-150	05/24/23 11:17	05/24/23 23:47	
Diazinon	99.1	0.1	ppm	60-120	05/24/23 11:17	05/24/23 16:02	
Cypermethrin	133	0.5	ppm	50-150	05/24/23 11:17	05/24/23 23:47	
Dimethoate	97.4	0.1	ppm	60-120	05/24/23 11:17	05/24/23 16:02	
Ethoprophos	96.3	0.1	ppm	60-120	05/24/23 11:17	05/24/23 16:02	
Etofenprox	93.4	0.1	ppm	50-150	05/24/23 11:17	05/24/23 16:02	
Etoxazole	103	0.1	ppm	60-120	05/24/23 11:17	05/24/23 16:02	
Fenoxycarb	97.0	0.1	ppm	60-120	05/24/23 11:17	05/24/23 16:02	
Fenpyroximate	106	0.1	ppm	60-120	05/24/23 11:17	05/24/23 16:02	
Fonicamid	106	0.1	ppm	60-120	05/24/23 11:17	05/24/23 16:02	
Hexythiazox	108	0.1	ppm	60-120	05/24/23 11:17	05/24/23 16:02	



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Quality Control Pesticide Analysis (Continued)

Batch: 2321034 - 202 (Continued)

LCS(2321034-BS1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Imazalil	92.7	0.1	ppm	60-120	05/24/23 11:17	05/24/23 16:02	
Fipronil	111	0.1	ppm	60-120	05/24/23 11:17	05/24/23 23:47	
Imidacloprid	106	0.1	ppm	60-120	05/24/23 11:17	05/24/23 16:02	
Fludioxonil	116	0.1	ppm	50-150	05/24/23 11:17	05/24/23 23:47	
Metalaxyl	105	0.1	ppm	60-120	05/24/23 11:17	05/24/23 16:02	
Methiocarb	111	0.1	ppm	60-120	05/24/23 11:17	05/24/23 16:02	
Methomyl	89.1	0.1	ppm	60-120	05/24/23 11:17	05/24/23 16:02	
Myclobutanil	106	0.1	ppm	60-120	05/24/23 11:17	05/24/23 16:02	
Kresoxim-methyl	111	0.1	ppm	60-120	05/24/23 11:17	05/24/23 23:47	
Naled	88.8	0.1	ppm	50-150	05/24/23 11:17	05/24/23 16:02	
Malathion	112	0.1	ppm	60-120	05/24/23 11:17	05/24/23 23:47	
Oxamyl	97.6	0.1	ppm	60-120	05/24/23 11:17	05/24/23 16:02	
Paclobutrazol	100	0.1	ppm	60-120	05/24/23 11:17	05/24/23 16:02	
Permethrins	102	0.1	ppm	50-150	05/24/23 11:17	05/24/23 16:02	
Methyl parathion	100	0.1	ppm	50-150	05/24/23 11:17	05/24/23 23:47	
MGK-264	110	0.1	ppm	50-150	05/24/23 11:17	05/24/23 23:47	
Phosmet	115	0.1	ppm	50-150	05/24/23 11:17	05/24/23 16:02	
Piperonyl butoxide	76.5	0.9	ppm	60-120	05/24/23 11:17	05/24/23 16:02	
Prallethrin	96.2	0.1	ppm	60-120	05/24/23 11:17	05/24/23 16:02	
Propoxur	103	0.1	ppm	60-120	05/24/23 11:17	05/24/23 16:02	
Pyrethrins	111	0.5	ppm	60-120	05/24/23 11:17	05/24/23 16:02	
Pyridaben	105	0.1	ppm	50-150	05/24/23 11:17	05/24/23 16:02	
Propiconazole	103	0.1	ppm	60-120	05/24/23 11:17	05/24/23 23:47	
Spinosad	93.3	0.1	ppm	50-150	05/24/23 11:17	05/24/23 16:02	
Spiromesifen	97.6	0.1	ppm	60-120	05/24/23 11:17	05/24/23 16:02	
Spirotetramat	108	0.1	ppm	60-120	05/24/23 11:17	05/24/23 16:02	
Spiroxamine	105	0.1	ppm	60-120	05/24/23 11:17	05/24/23 16:02	
Tebuconazole	104	0.1	ppm	60-120	05/24/23 11:17	05/24/23 16:02	
Thiacloprid	107	0.1	ppm	60-120	05/24/23 11:17	05/24/23 16:02	
Thiamethoxam	104	0.1	ppm	60-120	05/24/23 11:17	05/24/23 16:02	
Trifloxystrobin	101	0.1	ppm	60-120	05/24/23 11:17	05/24/23 16:02	
DDVP (Dichlorvos)	116	0.1	ppm	60-120	05/24/23 11:17	05/24/23 16:02	

Solvent Analysis

Batch: 2321033 - 205

Blank(2321033-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Acetone	< LOQ	1000	ppm		05/24/23 10:52	05/26/23 08:44	



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Quality Control Solvent Analysis (Continued)

Batch: 2321033 - 205 (Continued)

Blank(2321033-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Acetonitrile	< LOQ	50.00	ppm		05/24/23 10:52	05/26/23 08:44	
Benzene	< LOQ	1.000	ppm		05/24/23 10:52	05/26/23 08:44	
Butanes	< LOQ	1000	ppm		05/24/23 10:52	05/26/23 08:44	
2-Butanol	< LOQ	1000	ppm		05/24/23 10:52	05/26/23 08:44	
Cumene	< LOQ	35.00	ppm		05/24/23 10:52	05/26/23 08:44	
Cyclohexane	< LOQ	50.00	ppm		05/24/23 10:52	05/26/23 08:44	
Dichloromethane	< LOQ	50.00	ppm		05/24/23 10:52	05/26/23 08:44	
1,4-Dioxane	< LOQ	50.00	ppm		05/24/23 10:52	05/26/23 08:44	
2-Ethoxyethanol	< LOQ	80.00	ppm		05/24/23 10:52	05/26/23 08:44	
Ethyl acetate	< LOQ	1000	ppm		05/24/23 10:52	05/26/23 08:44	
Ethyl benzene	< LOQ	35.00	ppm		05/24/23 10:52	05/26/23 08:44	
Ethylene glycol	< LOQ	310.0	ppm		05/24/23 10:52	05/26/23 08:44	
Ethylene oxide	< LOQ	25.00	ppm		05/24/23 10:52	05/26/23 08:44	
Ethyl ether	< LOQ	1000	ppm		05/24/23 10:52	05/26/23 08:44	
Heptane	< LOQ	1000	ppm		05/24/23 10:52	05/26/23 08:44	
Hexanes	< LOQ	50.00	ppm		05/24/23 10:52	05/26/23 08:44	
Isopropyl acetate	< LOQ	1000	ppm		05/24/23 10:52	05/26/23 08:44	
Methanol	< LOQ	1000	ppm		05/24/23 10:52	05/26/23 08:44	
Pentanes	< LOQ	1000	ppm		05/24/23 10:52	05/26/23 08:44	
Propane	< LOQ	1000	ppm		05/24/23 10:52	05/26/23 08:44	
2-Propanol (IPA)	< LOQ	1000	ppm		05/24/23 10:52	05/26/23 08:44	
Tetrahydrofuran	< LOQ	50.00	ppm		05/24/23 10:52	05/26/23 08:44	
Toluene	< LOQ	50.00	ppm		05/24/23 10:52	05/26/23 08:44	
Xylenes	< LOQ	50.00	ppm		05/24/23 10:52	05/26/23 08:44	

LCS(2321033-BS1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Acetone	86.8	1000	ppm	60-120	05/24/23 10:52	05/25/23 10:16	
Acetonitrile	86.4	50.00	ppm	60-120	05/24/23 10:52	05/25/23 10:16	
Benzene	80.9	1.000	ppm	60-120	05/24/23 10:52	05/25/23 10:16	
Butanes	88.3	1000	ppm	60-120	05/24/23 10:52	05/25/23 10:16	
2-Butanol	86.2	1000	ppm	60-120	05/24/23 10:52	05/25/23 10:16	
Cumene	68.6	35.00	ppm	60-120	05/24/23 10:52	05/25/23 10:16	
Cyclohexane	87.8	50.00	ppm	60-120	05/24/23 10:52	05/25/23 10:16	
Dichloromethane	86.2	50.00	ppm	60-120	05/24/23 10:52	05/25/23 10:16	
1,4-Dioxane	80.8	50.00	ppm	60-120	05/24/23 10:52	05/25/23 10:16	
2-Ethoxyethanol	74.0	80.00	ppm	60-120	05/24/23 10:52	05/25/23 10:16	
Ethyl acetate	86.6	1000	ppm	60-120	05/24/23 10:52	05/25/23 10:16	
Ethyl benzene	78.3	35.00	ppm	60-120	05/24/23 10:52	05/25/23 10:16	



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Quality Control Solvent Analysis (Continued)

Batch: 2321033 - 205 (Continued)

LCS(2321033-BS1)									
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analized	Notes		
Ethylene glycol	65.6	310.0	ppm	60-120	05/24/23 10:52	05/25/23 10:16	BSL		
Ethylene oxide	80.6	25.00	ppm	60-120	05/24/23 10:52	05/25/23 10:16			
Ethyl ether	85.7	1000	ppm	60-120	05/24/23 10:52	05/25/23 10:16			
Heptane	88.5	1000	ppm	60-120	05/24/23 10:52	05/25/23 10:16			
Hexanes	84.4	50.00	ppm	60-120	05/24/23 10:52	05/25/23 10:16			
Isopropyl acetate	87.6	1000	ppm	60-120	05/24/23 10:52	05/25/23 10:16			
Methanol	87.2	1000	ppm	60-120	05/24/23 10:52	05/25/23 10:16			
Pentanes	82.3	1000	ppm	60-120	05/24/23 10:52	05/25/23 10:16			
Propane	84.5	1000	ppm	60-120	05/24/23 10:52	05/25/23 10:16			
2-Propanol (IPA)	88.2	1000	ppm	60-120	05/24/23 10:52	05/25/23 10:16			
Tetrahydrofuran	87.6	50.00	ppm	60-120	05/24/23 10:52	05/25/23 10:16			
Toluene	85.0	50.00	ppm	60-120	05/24/23 10:52	05/25/23 10:16			

Mold and Fungi

Batch: 2321035 - 301

Blank(2321035-BLK1)									
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analized	Notes		
Molds and Fungi	< LOQ	10.0	cfu/g		05/24/23 11:17	05/26/23 09:47			



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Chief Science Officer - 5/29/2023

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



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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