



## CBD Isolate B # 8149

Sample ID: G9K0170-03 Matrix: Extracts & Concentrates

Test ID: 5000052

Source ID: 8149

Date Sampled: 11/07/19

Date Accepted: 11/07/19

*Evergreen State Holdings*

### Results at a Glance

Total THC : <LOQ (0.1577%) %

Total CBD : 99.46 %

Pesticides : PASS

Residual Solvent Analysis : PASS

Eric Wendt  
Chief Science Officer - 11/12/2019



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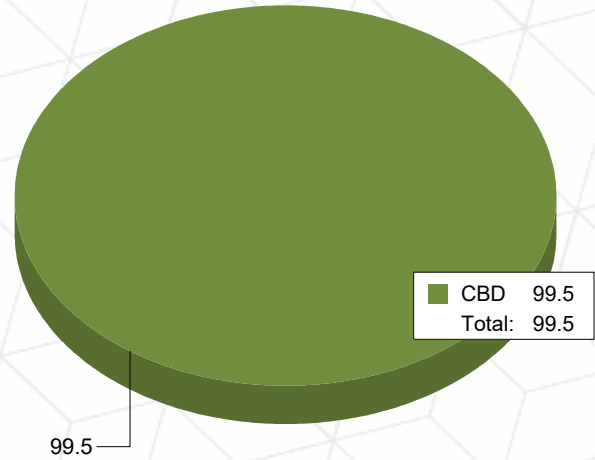
### Potency Analysis

Date/Time Extracted: 11/11/19 10:20

Analysis Method/SOP: 215

Batch Identification: 1946002

Cannabinoids	LOQ (%)	% by Wt.	mg/g	Cannabinoids Profile
Total THC	0.1577	< LOQ	< LOQ	
Total CBD	0.0431	99.46	994.6	
THCA	0.0607	< LOQ	< LOQ	
delta 9-THC	0.1577	< LOQ	< LOQ	
delta 8-THC	0.0934	< LOQ	< LOQ	
Exo-THC	0.0217	< LOQ	< LOQ	
THCV	0.1052	< LOQ	< LOQ	
THCVA	0.0392	< LOQ	< LOQ	
CBD	0.0324	99.46	994.6	
CBDA	0.0431	< 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	0.1864	< LOQ	< LOQ	
<b>Total Cannabinoids</b>		99.46	994.6	



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

Total CBD = CBD + (CBDA \* 0.877)

For Potency only delta 9-THC, THCA, CBD, CBDA are ORELAP accredited analytes.

Water Activity Action Level is 0.65. Results above 0.65 fail state testing requirements and will be highlighted Red.

Eric Wendt  
Chief Science Officer - 11/12/2019



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Matrix: Extracts & Concentrates

Test ID: 5000052

Source ID: 8149

Date Sampled: 11/07/19

Date Accepted: 11/07/19

*Evergreen State Holdings*

### Pesticide Analysis in ppm

Date/Time Extracted: 11/11/19 10:22

Analysis Method/SOP: 202

Analyte	Result	Action Level	LOD	LOQ	Units	Analyte	Result	Action Level	LOD	LOQ	Units
Abamectin	< LOQ	0.5		0.4	ppm	Acephate	< LOQ	0.4		0.06	ppm
Acequinocyl	< LOQ	2		0.4	ppm	Acetamiprid	< LOQ	0.2		0.06	ppm
Aldicarb	< LOQ	0.4		0.06	ppm	Azoxystrobin	< LOQ	0.2		0.06	ppm
Bifenazate	< LOQ	0.2		0.06	ppm	Bifenthrin	< LOQ	0.2		0.06	ppm
Boscalid	< LOQ	0.4		0.06	ppm	Carbaryl	< LOQ	0.2		0.06	ppm
Carbofuran	< LOQ	0.2		0.06	ppm	Chlorantraniliprole	< LOQ	0.2		0.06	ppm
Chlorfenapyr	< LOQ	1		0.4	ppm	Chlorpyrifos	< LOQ	0.2		0.06	ppm
Clofentezine	< LOQ	0.2		0.06	ppm	Cyfluthrin	< LOQ	1		0.06	ppm
Cypermethrin	< LOQ	1		0.4	ppm	Daminozide	< LOQ	1		0.06	ppm
DDVP (Dichlorvos)	< LOQ	1		0.06	ppm	Diazinon	< LOQ	0.2		0.06	ppm
Dimethoate	< LOQ	0.2		0.06	ppm	Ethoprophos	< LOQ	0.2		0.06	ppm
Etofenprox	< LOQ	0.4		0.06	ppm	Etoxazole	< LOQ	0.2		0.06	ppm
Fenoxycarb	< LOQ	0.2		0.06	ppm	Fenpyroximate	< LOQ	0.4		0.06	ppm
Fipronil	< LOQ	0.4		0.1	ppm	Flonicamid	< LOQ	1		0.06	ppm
Fludioxonil	< LOQ	0.4		0.06	ppm	Hexythiazox	< LOQ	1		0.1	ppm
Imazalil	< LOQ	0.2		0.06	ppm	Imidacloprid	< LOQ	0.4		0.06	ppm
Kresoxim-methyl	< LOQ	0.4		0.1	ppm	Malathion	< LOQ	0.2		0.06	ppm
Metalaxyl	< LOQ	0.2		0.06	ppm	Methiocarb	< LOQ	0.2		0.06	ppm
Methomyl	< LOQ	0.4		0.06	ppm	Methyl parathion	< LOQ	0.2		0.06	ppm
MGK-264	< LOQ	0.2		0.06	ppm	Myclobutanil	< LOQ	0.2		0.06	ppm
Naled	< LOQ	0.5		0.06	ppm	Oxamyl	< LOQ	1		0.06	ppm
Paclobutrazol	< LOQ	0.4		0.06	ppm	Permethrins	< LOQ	0.2		0.06	ppm
Phosmet	< LOQ	0.2		0.06	ppm	Piperonyl butoxide	< LOQ	2		0.9	ppm
Prallethrin	< LOQ	0.2		0.06	ppm	Propiconazole	< LOQ	0.4		0.06	ppm
Propoxur	< LOQ	0.2		0.06	ppm	Pyrethrins	< LOQ	1		0.06	ppm
Pyridaben	< LOQ	0.2		0.06	ppm	Spinosad	< LOQ	0.2		0.06	ppm
Spiromesifen	< LOQ	0.2		0.06	ppm	Spirotetramat	< LOQ	0.2		0.06	ppm
Spiroxamine	< LOQ	0.4		0.06	ppm	Tebuconazole	< LOQ	0.4		0.06	ppm
Thiacloprid	< LOQ	0.2		0.06	ppm	Thiamethoxam	< LOQ	0.2		0.06	ppm
Trifloxystrobin	< LOQ	0.2		0.06	ppm						

ND - Compound not detected

Results above the Action Level fail state testing requirements and will be highlighted **Red**.

Eric Wendt  
Chief Science Officer - 11/12/2019



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Test ID: 5000052

Source ID: 8149

Date Sampled: 11/07/19

Date Accepted: 11/07/19

*Evergreen State Holdings*

### Residual Solvents

Date/Time Extracted: 11/11/19 12:50

Analysis Method/SOP: 205

Analyte	Result	Action Level	LOD	LOQ	Units
1,4-Dioxane	< LOQ	380		190.0	ppm
2-Butanol	< LOQ	5000		2500	ppm
2-Ethoxyethanol	< LOQ	160		80.00	ppm
2-Propanol (IPA)	< LOQ	5000		2500	ppm
Acetone	< LOQ	5000		2500	ppm
Acetonitrile	< LOQ	410		205.0	ppm
Benzene	< LOQ	2		1.000	ppm
Butanes	< LOQ	5000		2500	ppm
Cumene	< LOQ	70		35.00	ppm
Cyclohexane	< LOQ	3880		1940	ppm
Dichloromethane	< LOQ	600		300.0	ppm
Ethyl acetate	< LOQ	5000		2500	ppm
Ethyl benzene	< LOQ	2170		35.00	ppm
Ethyl ether	< LOQ	5000		2500	ppm
Ethylene glycol	< LOQ	620		50.00	ppm
Ethylene oxide	< LOQ	50		25.00	ppm
Heptane	< LOQ	5000		2500	ppm
Hexanes	< LOQ	290		145.0	ppm
Isopropyl acetate	< LOQ	5000		2500	ppm
Methanol	< LOQ	3000		1500	ppm
Pentanes	< LOQ	5000		2500	ppm
Propane	< LOQ	5000		2500	ppm
Tetrahydrofuran	< LOQ	720		360.0	ppm
Toluene	< LOQ	890		445.0	ppm
Xylenes	< LOQ	2170		1085	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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Chief Science Officer - 11/12/2019



### Quality Control Potency

Batch: 1946002 - 215-Concentrates

Blank(1946002-BLK1)						
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed
THCA	< LOQ	0.0607	%		11/11/19 10:20	11/11/19 22:32
delta 9-THC	< LOQ	0.1577	%		11/11/19 10:20	11/11/19 22:32
delta 8-THC	< LOQ	0.0934	%		11/11/19 10:20	11/11/19 22:32
Exo-THC	< LOQ	0.0217	%		11/11/19 10:20	11/11/19 22:32
THCV	< LOQ	0.1052	%		11/11/19 10:20	11/11/19 22:32
THCVA	< LOQ	0.0392	%		11/11/19 10:20	11/11/19 22:32
CBD	< LOQ	0.0324	%		11/11/19 10:20	11/11/19 22:32
CBDA	< LOQ	0.0431	%		11/11/19 10:20	11/11/19 22:32
CBDV	< LOQ	0.1040	%		11/11/19 10:20	11/11/19 22:32
CBDVA	< LOQ	0.0341	%		11/11/19 10:20	11/11/19 22:32
CBN	< LOQ	0.0622	%		11/11/19 10:20	11/11/19 22:32
CBG	< LOQ	0.0164	%		11/11/19 10:20	11/11/19 22:32
CBGA	< LOQ	0.0164	%		11/11/19 10:20	11/11/19 22:32
CBC	< LOQ	0.1864	%		11/11/19 10:20	11/11/19 22:32

Reference(1946002-SRM1)						
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed
THCA	101	0.0296	%	80-120	11/11/19 10:20	11/11/19 22:55
delta 9-THC	103	0.0770	%	80-120	11/11/19 10:20	11/11/19 22:55
CBD	102	0.0158	%	80-120	11/11/19 10:20	11/11/19 22:55
CBDA	103	0.0211	%	80-120	11/11/19 10:20	11/11/19 22:55

### Pesticide Analysis

Batch: 1946003 - 202

Blank(1946003-BLK1)						
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed
Abamectin	< LOQ	0.4	ppm		11/11/19 10:22	11/11/19 18:36
DDVP (Dichlorvos)	< LOQ	0.06	ppm		11/11/19 10:22	11/11/19 23:04
Acephate	< LOQ	0.06	ppm		11/11/19 10:22	11/11/19 18:36
Acequinocyl	< LOQ	0.4	ppm		11/11/19 10:22	11/11/19 18:36
Acetamiprid	< LOQ	0.06	ppm		11/11/19 10:22	11/11/19 18:36
Aldicarb	< LOQ	0.06	ppm		11/11/19 10:22	11/11/19 18:36
Azoxystrobin	< LOQ	0.06	ppm		11/11/19 10:22	11/11/19 18:36
Bifenazate	< LOQ	0.06	ppm		11/11/19 10:22	11/11/19 18:36
Bifenthrin	< LOQ	0.06	ppm		11/11/19 10:22	11/11/19 23:04
Boscalid	< LOQ	0.06	ppm		11/11/19 10:22	11/11/19 23:04
Carbaryl	< LOQ	0.06	ppm		11/11/19 10:22	11/11/19 18:36
Carbofuran	< LOQ	0.06	ppm		11/11/19 10:22	11/11/19 18:36
Chlorantraniliprole	< LOQ	0.06	ppm		11/11/19 10:22	11/11/19 18:36

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### Quality Control Pesticide Analysis (Continued)

Batch: 1946003 - 202 (Continued)

Blank(1946003-BLK1)						
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed
Chlorfenapyr	< LOQ	0.4	ppm		11/11/19 10:22	11/11/19 23:04
Chlorpyrifos	< LOQ	0.06	ppm		11/11/19 10:22	11/11/19 18:36
Clofentezine	< LOQ	0.06	ppm		11/11/19 10:22	11/11/19 18:36
Cyfluthrin	< LOQ	0.06	ppm		11/11/19 10:22	11/11/19 23:04
Cypermethrin	< LOQ	0.4	ppm		11/11/19 10:22	11/11/19 23:04
Daminozide	< LOQ	0.06	ppm		11/11/19 10:22	11/11/19 18:36
Diazinon	< LOQ	0.06	ppm		11/11/19 10:22	11/11/19 18:36
Dimethoate	< LOQ	0.06	ppm		11/11/19 10:22	11/11/19 18:36
Ethoprophos	< LOQ	0.06	ppm		11/11/19 10:22	11/11/19 18:36
Etofenprox	< LOQ	0.06	ppm		11/11/19 10:22	11/11/19 18:36
Etoxazole	< LOQ	0.06	ppm		11/11/19 10:22	11/11/19 18:36
Fenoxycarb	< LOQ	0.06	ppm		11/11/19 10:22	11/11/19 18:36
Fenpyroximate	< LOQ	0.06	ppm		11/11/19 10:22	11/11/19 18:36
Fipronil	< LOQ	0.1	ppm		11/11/19 10:22	11/11/19 23:04
Flonicamid	< LOQ	0.06	ppm		11/11/19 10:22	11/11/19 18:36
Fludioxonil	< LOQ	0.06	ppm		11/11/19 10:22	11/11/19 18:36
Hexythiazox	< LOQ	0.1	ppm		11/11/19 10:22	11/11/19 18:36
Imazalil	< LOQ	0.06	ppm		11/11/19 10:22	11/11/19 18:36
Imidacloprid	< LOQ	0.06	ppm		11/11/19 10:22	11/11/19 18:36
Kresoxim-methyl	< LOQ	0.1	ppm		11/11/19 10:22	11/11/19 23:04
Malathion	< LOQ	0.06	ppm		11/11/19 10:22	11/11/19 18:36
Metalaxyl	< LOQ	0.06	ppm		11/11/19 10:22	11/11/19 18:36
Methiocarb	< LOQ	0.06	ppm		11/11/19 10:22	11/11/19 18:36
Methomyl	< LOQ	0.06	ppm		11/11/19 10:22	11/11/19 18:36
Methyl parathion	< LOQ	0.06	ppm		11/11/19 10:22	11/11/19 23:04
MGK-264	< LOQ	0.06	ppm		11/11/19 10:22	11/11/19 23:04
Myclobutanil	< LOQ	0.06	ppm		11/11/19 10:22	11/11/19 18:36
Naled	< LOQ	0.06	ppm		11/11/19 10:22	11/11/19 18:36
Oxamyl	< LOQ	0.06	ppm		11/11/19 10:22	11/11/19 18:36
Paclobutrazol	< LOQ	0.06	ppm		11/11/19 10:22	11/11/19 18:36
Permethrins	< LOQ	0.06	ppm		11/11/19 10:22	11/11/19 23:04
Phosmet	< LOQ	0.06	ppm		11/11/19 10:22	11/11/19 18:36
Piperonyl butoxide	< LOQ	0.9	ppm		11/11/19 10:22	11/11/19 18:36
Prallethrin	< LOQ	0.06	ppm		11/11/19 10:22	11/11/19 18:36
Propiconazole	< LOQ	0.06	ppm		11/11/19 10:22	11/11/19 23:04
Propoxur	< LOQ	0.06	ppm		11/11/19 10:22	11/11/19 18:36
Pyrethrins	< LOQ	0.06	ppm		11/11/19 10:22	11/11/19 18:36
Pyridaben	< LOQ	0.06	ppm		11/11/19 10:22	11/11/19 18:36

Eric Wendt  
Chief Science Officer - 11/12/2019



### Quality Control Pesticide Analysis (Continued)

Batch: 1946003 - 202 (Continued)

Blank(1946003-BLK1)						
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed
Spinosad	< LOQ	0.06	ppm		11/11/19 10:22	11/11/19 18:36
Spiromesifen	< LOQ	0.06	ppm		11/11/19 10:22	11/11/19 18:36
Spirotetramat	< LOQ	0.06	ppm		11/11/19 10:22	11/11/19 18:36
Spiroxamine	< LOQ	0.06	ppm		11/11/19 10:22	11/11/19 18:36
Tebuconazole	< LOQ	0.06	ppm		11/11/19 10:22	11/11/19 18:36
Thiacloprid	< LOQ	0.06	ppm		11/11/19 10:22	11/11/19 18:36
Thiamethoxam	< LOQ	0.06	ppm		11/11/19 10:22	11/11/19 18:36
Trifloxystrobin	< LOQ	0.06	ppm		11/11/19 10:22	11/11/19 18:36

LCS(1946003-BS1)						
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed
Abamectin	92.0	0.4	ppm	70-130	11/11/19 10:22	11/11/19 18:59
DDVP (Dichlorvos)	125	0.06	ppm	70-130	11/11/19 10:22	11/11/19 23:26
Acephate	119	0.06	ppm	70-130	11/11/19 10:22	11/11/19 18:59
Acequinocyl	45.4	0.4	ppm	5.57-33.8	11/11/19 10:22	11/11/19 18:59
Acetamiprid	112	0.06	ppm	70-130	11/11/19 10:22	11/11/19 18:59
Aldicarb	106	0.06	ppm	70-130	11/11/19 10:22	11/11/19 18:59
Azoxystrobin	114	0.06	ppm	70-130	11/11/19 10:22	11/11/19 18:59
Bifenazate	113	0.06	ppm	70-130	11/11/19 10:22	11/11/19 18:59
Bifenthrin	107	0.06	ppm	70-130	11/11/19 10:22	11/11/19 23:26
Boscalid	106	0.06	ppm	70-130	11/11/19 10:22	11/11/19 23:26
Carbaryl	111	0.06	ppm	70-130	11/11/19 10:22	11/11/19 18:59
Carbofuran	112	0.06	ppm	70-130	11/11/19 10:22	11/11/19 18:59
Chlorantraniliprole	102	0.06	ppm	70-130	11/11/19 10:22	11/11/19 18:59
Chlorfenapyr	138	0.4	ppm	70-130	11/11/19 10:22	11/11/19 23:26
Chlorpyrifos	85.6	0.06	ppm	70-130	11/11/19 10:22	11/11/19 18:59
Clofentezine	133	0.06	ppm	14.4-62.3	11/11/19 10:22	11/11/19 18:59
Cyfluthrin	113	0.06	ppm	70-130	11/11/19 10:22	11/11/19 23:26
Cypermethrin	143	0.4	ppm	70-130	11/11/19 10:22	11/11/19 23:26
Daminozide	53.6	0.06	ppm	0-100	11/11/19 10:22	11/11/19 18:59
Diazinon	119	0.06	ppm	70-130	11/11/19 10:22	11/11/19 18:59
Dimethoate	118	0.06	ppm	70-130	11/11/19 10:22	11/11/19 18:59
Ethoprophos	107	0.06	ppm	70-130	11/11/19 10:22	11/11/19 18:59
Etofenprox	103	0.06	ppm	70-130	11/11/19 10:22	11/11/19 18:59
Etoxazole	112	0.06	ppm	70-130	11/11/19 10:22	11/11/19 18:59
Fenoxycarb	113	0.06	ppm	70-130	11/11/19 10:22	11/11/19 18:59
Fenpyroximate	82.3	0.06	ppm	70-130	11/11/19 10:22	11/11/19 18:59
Fipronil	110	0.1	ppm	70-130	11/11/19 10:22	11/11/19 23:26
Fonicamid	109	0.06	ppm	70-130	11/11/19 10:22	11/11/19 18:59

Eric Wendt  
Chief Science Officer - 11/12/2019



### Quality Control Pesticide Analysis (Continued)

Batch: 1946003 - 202 (Continued)

LCS(1946003-BS1)						
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed
Fludioxonil	117	0.06	ppm	70-130	11/11/19 10:22	11/11/19 18:59
Hexythiazox	68.8	0.1	ppm	70-130	11/11/19 10:22	11/11/19 18:59
Imazalil	110	0.06	ppm	57.9-96.4	11/11/19 10:22	11/11/19 18:59
Imidacloprid	115	0.06	ppm	70-130	11/11/19 10:22	11/11/19 18:59
Kresoxim-methyl	115	0.1	ppm	70-130	11/11/19 10:22	11/11/19 23:26
Malathion	113	0.06	ppm	70-130	11/11/19 10:22	11/11/19 18:59
Metalaxyl	113	0.06	ppm	70-130	11/11/19 10:22	11/11/19 18:59
Methiocarb	109	0.06	ppm	70-130	11/11/19 10:22	11/11/19 18:59
Methomyl	108	0.06	ppm	70-130	11/11/19 10:22	11/11/19 18:59
Methyl parathion	112	0.06	ppm	70-130	11/11/19 10:22	11/11/19 23:26
MGK-264	113	0.06	ppm	70-130	11/11/19 10:22	11/11/19 23:26
Myclobutanil	105	0.06	ppm	70-130	11/11/19 10:22	11/11/19 18:59
Naled	102	0.06	ppm	70-130	11/11/19 10:22	11/11/19 18:59
Oxamyl	109	0.06	ppm	70-130	11/11/19 10:22	11/11/19 18:59
Paclobutrazol	105	0.06	ppm	70-130	11/11/19 10:22	11/11/19 18:59
Permethrins	114	0.06	ppm	70-130	11/11/19 10:22	11/11/19 23:26
Phosmet	113	0.06	ppm	70-130	11/11/19 10:22	11/11/19 18:59
Piperonyl butoxide	111	0.9	ppm	70-130	11/11/19 10:22	11/11/19 18:59
Prallethrin	105	0.06	ppm	70-130	11/11/19 10:22	11/11/19 18:59
Propiconazole	109	0.06	ppm	70-130	11/11/19 10:22	11/11/19 23:26
Propoxur	114	0.06	ppm	70-130	11/11/19 10:22	11/11/19 18:59
Pyrethrins	267	0.06	ppm	70-130	11/11/19 10:22	11/11/19 18:59
Pyridaben	106	0.06	ppm	70-130	11/11/19 10:22	11/11/19 18:59
Spinosad	85.5	0.06	ppm	51-86	11/11/19 10:22	11/11/19 18:59
Spiromesifen	105	0.06	ppm	70-130	11/11/19 10:22	11/11/19 18:59
Spirotetramat	109	0.06	ppm	70-130	11/11/19 10:22	11/11/19 18:59
Spiroxamine	106	0.06	ppm	70-130	11/11/19 10:22	11/11/19 18:59
Tebuconazole	101	0.06	ppm	70-130	11/11/19 10:22	11/11/19 18:59
Thiacloprid	108	0.06	ppm	70-130	11/11/19 10:22	11/11/19 18:59
Thiamethoxam	109	0.06	ppm	70-130	11/11/19 10:22	11/11/19 18:59
Trifloxystrobin	113	0.06	ppm	70-130	11/11/19 10:22	11/11/19 18:59

### Solvent Analysis

Batch: 1946011 - 205

Blank(1946011-BLK1)						
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed
Acetone	< LOQ	2500	ppm		11/11/19 12:50	11/11/19 21:26
Acetonitrile	< LOQ	205.0	ppm		11/11/19 12:50	11/11/19 21:26

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### Quality Control Solvent Analysis (Continued)

Batch: 1946011 - 205 (Continued)

Blank(1946011-BLK1)						
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed
Benzene	< LOQ	1.000	ppm		11/11/19 12:50	11/11/19 21:26
Butanes	< LOQ	2500	ppm		11/11/19 12:50	11/11/19 21:26
2-Butanol	< LOQ	2500	ppm		11/11/19 12:50	11/11/19 21:26
Cumene	< LOQ	35.00	ppm		11/11/19 12:50	11/11/19 21:26
Cyclohexane	< LOQ	1940	ppm		11/11/19 12:50	11/11/19 21:26
Dichloromethane	< LOQ	300.0	ppm		11/11/19 12:50	11/11/19 21:26
1,4-Dioxane	< LOQ	190.0	ppm		11/11/19 12:50	11/11/19 21:26
2-Ethoxyethanol	< LOQ	80.00	ppm		11/11/19 12:50	11/11/19 21:26
Ethyl acetate	< LOQ	2500	ppm		11/11/19 12:50	11/11/19 21:26
Ethyl benzene	< LOQ	35.00	ppm		11/11/19 12:50	11/11/19 21:26
Ethylene glycol	< LOQ	50.00	ppm		11/11/19 12:50	11/11/19 21:26
Ethylene oxide	< LOQ	25.00	ppm		11/11/19 12:50	11/11/19 21:26
Ethyl ether	< LOQ	2500	ppm		11/11/19 12:50	11/11/19 21:26
Heptane	< LOQ	2500	ppm		11/11/19 12:50	11/11/19 21:26
Hexanes	< LOQ	145.0	ppm		11/11/19 12:50	11/11/19 21:26
Isopropyl acetate	< LOQ	2500	ppm		11/11/19 12:50	11/11/19 21:26
Methanol	< LOQ	1500	ppm		11/11/19 12:50	11/11/19 21:26
Pentanes	< LOQ	2500	ppm		11/11/19 12:50	11/11/19 21:26
Propane	< LOQ	2500	ppm		11/11/19 12:50	11/11/19 21:26
2-Propanol (IPA)	< LOQ	2500	ppm		11/11/19 12:50	11/11/19 21:26
Tetrahydrofuran	< LOQ	360.0	ppm		11/11/19 12:50	11/11/19 21:26
Toluene	< LOQ	445.0	ppm		11/11/19 12:50	11/11/19 21:26
Xylenes	< LOQ	1085	ppm		11/11/19 12:50	11/11/19 21:26

LCS(1946011-BS1)						
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed
Acetone	87.3	2500	ppm	70-130	11/11/19 12:50	11/12/19 09:55
Acetonitrile	80.1	205.0	ppm	70-130	11/11/19 12:50	11/12/19 09:55
Benzene	92.7	1.000	ppm	70-130	11/11/19 12:50	11/12/19 09:55
n-Butane	82.0	50.00	ppm	70-130	11/11/19 12:50	11/12/19 09:55
Butanes	81.8	2500	ppm	70-130	11/11/19 12:50	11/12/19 09:55
2-Butanol	83.4	2500	ppm	70-130	11/11/19 12:50	11/12/19 09:55
Cumene	99.7	35.00	ppm	70-130	11/11/19 12:50	11/12/19 09:55
Cyclohexane	94.7	1940	ppm	70-130	11/11/19 12:50	11/12/19 09:55
Dichloromethane	84.7	300.0	ppm	70-130	11/11/19 12:50	11/12/19 09:55
1,4-Dioxane	96.2	190.0	ppm	70-130	11/11/19 12:50	11/12/19 09:55
Ethanol	87.4	50.00	ppm	70-130	11/11/19 12:50	11/12/19 09:55
2-Ethoxyethanol	91.8	80.00	ppm	70-130	11/11/19 12:50	11/12/19 09:55
Ethyl acetate	87.1	2500	ppm	70-130	11/11/19 12:50	11/12/19 09:55

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## Quality Control Solvent Analysis (Continued)

**Batch: 1946011 - 205 (Continued)**

LCS(1946011-BS1)						
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed
Ethyl benzene	95.3	35.00	ppm	70-130	11/11/19 12:50	11/12/19 09:55
Ethylene glycol	104	50.00	ppm	70-130	11/11/19 12:50	11/12/19 09:55
Ethylene oxide	83.4	25.00	ppm	70-130	11/11/19 12:50	11/12/19 09:55
Ethyl ether	88.1	2500	ppm	70-130	11/11/19 12:50	11/12/19 09:55
Heptane	84.6	2500	ppm	70-130	11/11/19 12:50	11/12/19 09:55
n-Hexane	87.7	50.00	ppm	70-130	11/11/19 12:50	11/12/19 09:55
Hexanes	90.6	145.0	ppm	70-130	11/11/19 12:50	11/12/19 09:55
iso-Butane	81.6	50.00	ppm	70-130	11/11/19 12:50	11/12/19 09:55
Isopropyl acetate	88.7	2500	ppm	70-130	11/11/19 12:50	11/12/19 09:55
iso-Pentane	82.2	50.00	ppm	70-130	11/11/19 12:50	11/12/19 09:55
Methanol	86.9	1500	ppm	70-130	11/11/19 12:50	11/12/19 09:55
2-Methylpentane	91.7	50.00	ppm	70-130	11/11/19 12:50	11/12/19 09:55
3-Methylpentane	87.7	50.00	ppm	70-130	11/11/19 12:50	11/12/19 09:55
neo-Pentane	88.0	50.00	ppm	70-130	11/11/19 12:50	11/12/19 09:55
n-Pentane	86.5	50.00	ppm	70-130	11/11/19 12:50	11/12/19 09:55
Pentanes	85.6	2500	ppm	70-130	11/11/19 12:50	11/12/19 09:55
Propane	80.8	2500	ppm	70-130	11/11/19 12:50	11/12/19 09:55
2-Propanol (IPA)	84.7	2500	ppm	70-130	11/11/19 12:50	11/12/19 09:55
Tetrahydrofuran	82.8	360.0	ppm	70-130	11/11/19 12:50	11/12/19 09:55
Toluene	97.4	445.0	ppm	70-130	11/11/19 12:50	11/12/19 09:55

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Chief Science Officer - 11/12/2019



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## Certificate of Analysis

<b>Sample Number:</b>	1912030-01	<b>Received Date:</b>	12/02/2019
<b>Lot Number:</b>	8149	<b>Tested Date:</b>	12/02/2019
<b>Description:</b>	CBD Isolate 99%	<b>Completed Date:</b>	12/17/2019
		<b>Received Condition:</b>	Ambient Temperature
		<b>Storage Condition:</b>	Ambient Temperature

### Analysis – Cannabinoid Profile

Type	Result	Method
CBDVA	Not Tested	HPLC/DAD-MS
CBDV	Not Tested	HPLC/DAD-MS
CBDa	ND	HPLC/DAD-MS
CBGa	ND	HPLC/DAD-MS
CBG	ND	HPLC/DAD-MS
CBD	98.9%	HPLC/DAD-MS
THCV	Not Tested	HPLC/DAD-MS
CBN	Not Tested	HPLC/DAD-MS
$\Delta$ 9-THC	ND	HPLC/DAD-MS
$\Delta$ 8-THC	Not Tested	HPLC/DAD-MS
THCa	ND	HPLC/DAD-MS
CBC	Not Tested	HPLC/DAD-MS
<b>Total Cannabinoids</b>	98.9%	HPLC/DAD-MS

### Analysis Contaminants

<b>Method of Testing</b>	GC-MS
<b>Were there any detections on the multi-residue screen?</b>	No
<b>Were any solvents detected?</b>	No

### Analysis Contaminants

Test	Unit	Result	Method
<b>Aerobic Plate Count</b>	CFU/g	10	FDA-BAM 3.01 8th Ed./CMMEF 7.61, 4th Ed.
<b>E. coli (USP)</b>	+/- in 10 g	Negative	USP NF <62><2022>
<b>Salmonella (VIDAS SPT)</b>	+/- in 25 g	Negative	AOAC 2013.01
<b>Staphylococcus Aureus (USP)</b>	+/- in 10 g	Negative	USP NF <62><2022>
<b>Total Coliform (Petrifilm)</b>	CFU/g	< 10	AOAC 991.14
<b>Yeast &amp; Mold (RYM)</b>	CFU/g	<10Y / <10M	AOAC 2014.05

### Analysis Heavy Metals

Element	Result	Units	Method
<b>Beryllium</b>	< 10.00	ppm	ICP-MS
<b>Aluminium</b>	0.67584	ppm	ICP-MS
<b>Vanadium</b>	0.09880	ppm	ICP-MS
<b>Chromium</b>	0.02980	ppm	ICP-MS
<b>Manganese</b>	< 0.200	ppm	ICP-MS



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<b>Cobalt</b>	< 0.005	ppm	ICP-MS
<b>Nickel</b>	0.01698	ppm	ICP-MS
<b>Copper</b>	< 0.050	ppm	ICP-MS
<b>Zinc</b>	5.29646	ppm	ICP-MS
<b>Arsenic</b>	0.02465	ppm	ICP-MS
<b>Selenium</b>	< 0.050	ppm	ICP-MS
<b>Molybdenum</b>	< 0.400	ppm	ICP-MS
<b>Palladium</b>	< 0.010	ppm	ICP-MS
<b>Silver</b>	< 0.010	ppm	ICP-MS
<b>Cadmium</b>	< 0.005	ppm	ICP-MS
<b>Tin</b>	< 0.020	ppm	ICP-MS
<b>Antimony</b>	0.02196	ppm	ICP-MS
<b>Barium</b>	< 0.100	ppm	ICP-MS
<b>Tungsten</b>	< 0.100	ppm	ICP-MS
<b>Platinum</b>	< 0.005	ppm	ICP-MS
<b>Thallium</b>	< 0.010	ppm	ICP-MS
<b>Lead</b>	0.00803	ppm	ICP-MS
<b>Uranium</b>	< 0.005	ppm	ICP-MS
<b>Mercury</b>	< 0.010	ppm	ICP-MS

*THESE RESULTS APPLY ONLY TO THE SAMPLE SUBMITTED AND NOT TO THE PRODUCT FROM WHICH IT WAS TAKEN. THESE RESULTS ARE PROVIDED ONLY FOR THE BENEFIT OF CLIENT, WITHOUT REPRESENTATION OR WARRANTY OF ANY KIND, EXCEPT FOR THE EXPRESS LIMITED WARRANTY PROVIDED SOLELY TO CLIENT IN VIVION INC. TERMS OF SERVICE.*

*THIS CERTIFICATE SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT WRITTEN APPROVAL FROM VIVION INC.*

Results Approved By:   
Tom Rowan - Compliance Manager

Dated: 12/17/2019

