



Certificate of Analysis

Sample provided to the laboratory by the client and tested as received.

Powered by Confident Cannabis
1 of 24

Thoughtcloud

Portland, OR 97205
admin@thoughtcloud.net
(949) 664-0114
Lic. #

Sample: 1912CH0252.1089

Strain: Full Spectrum CBD
Batch#: ; Batch Size: g
Sample Received: 12/13/2019; Report Created: 12/24/2019; Expires: 12/24/2020
Harvest/Production Date:
Sampling: Random; Environment: Room Temp

Signature Daily Formula

Ingestible, Tincture
Harvest Process Lot: ; METRC Batch: ; METRC Sample:



Analyte

THCa	
Δ9-THC	█
THCV	
CBDa	
CBD	█
CBDV	█
CBN	
CBGa	
CBG	
CBC	█

Cannabinoids

053 HPLC6 20191213-1
12/13/2019 | METRC THC RPD Status: Not Tested

1 Serving = , 0.5g

120 servings/container, 21.501mg of Total THC per container

Complete

0.180 mg/serving

Δ9-THC/serving

7.400 mg/serving

Total CBD

21.600 mg/container

Δ9-THC/container

888.227mg of Total CBD per container

Total CBD

Analyte	LOQ	Mass	Mass	Mass	
	mg/g	mg/serving	mg/g	%	
THCa	0.200	<LOQ	<LOQ	<LOQ	
Δ9-THC	0.200	0.180	0.360	0.0360	█
THCV	0.200	<LOQ	<LOQ	<LOQ	
CBDa	0.200	<LOQ	<LOQ	<LOQ	
CBD	0.200	7.400	14.800	1.4800	█
CBDV	0.200	0.110	0.220	0.0220	█
CBN	0.200	<LOQ	<LOQ	<LOQ	
CBGa	0.200	<LOQ	<LOQ	<LOQ	
CBG	0.200	<LOQ	<LOQ	<LOQ	
CBC	0.200	0.385	0.770	0.0770	█
Total		8.075	16.150	1.6150	

Total Cannabinoids Analyzed: 8.075 mg/serving

Method: CH SOP 400

*Total THC = THCa * 0.877 + d9-THC. **Total CBD = CBDa * 0.877 + CBD. LOQ = Limit of Quantification; NR = Not Reported; ND = Not Detected



5691 SE International Way B
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(503) 305-5252
http://chemhistory.com
Lic# OLCC 010-1002015CA5E ORELAP 4057

Douglas Duncan
Laboratory Director

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Harvest Process Lot: ; METRC Batch: ; METRC Sample:



Residual Solvents

Pass

444 GCMS2 20191213-1
12/13/2019
METRC RPD Status: Not Tested

Analyte	LOQ	Limit	Mass	Status
	PPM	PPM	PPM	
1,4-Dioxane	59	380	<LOQ	Pass
2-Butanol	59	5000	<LOQ	Pass
2-Ethoxy-Ethanol	59	160	<LOQ	Pass
Acetone	15	5000	<LOQ	Pass
Acetonitrile	59	410	<LOQ	Pass
Benzene	2	2	<LOQ	Pass
Butanes	15	5000	<LOQ	Pass
Cumene	3	70	<LOQ	Pass
Cyclohexane	3	3880	<LOQ	Pass
Dichloromethane	15	600	<LOQ	Pass
Ethyl-Acetate	15	5000	33	Pass
Ethyl-Ether	15	5000	<LOQ	Pass
Ethylene Glycol	59	620	<LOQ	Pass
Ethylene Oxide	15	50	<LOQ	Pass
Heptane	59	5000	<LOQ	Pass
Hexanes	15	290	<LOQ	Pass
Isopropanol	59	5000	<LOQ	Pass
Isopropyl-Acetate	59	5000	<LOQ	Pass
Methanol	59	3000	<LOQ	Pass
Pentanes	15	5000	<LOQ	Pass
Propane	59	5000	<LOQ	Pass
Tetrahydrofuran	15	720	<LOQ	Pass
Toluene	15	890	<LOQ	Pass
Xylenes	29	2170	<LOQ	Pass

LOQ = Limit of Quantification; PPM = Parts Per Million; NR = Not Reported; ND = Not Detected. Method: EPA 8260C, Agilent 6890A GCMS with 7679A Headspace Autosampler; ORELAP ID 4057



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Ingestible, Tincture
Harvest Process Lot: ; METRC Batch: ; METRC Sample:



Pesticides

162 LCQQQ4 20191212-1

Pass

Analyte	LOQ	Limit	Mass	Status	Analyte	LOQ	Limit	Mass	Status
	PPB	PPB	PPB			PPB	PPB	PPB	
Abamectin	400	500	<LOQ	Pass	Imazalil	100	200	<LOQ	Pass
Acephate	100	400	<LOQ	Pass	Imidacloprid	100	400	<LOQ	Pass
Acequinocyl	750	2000	<LOQ	Pass	Kresoxim Methyl	100	400	<LOQ	Pass
Acetamiprid	100	200	<LOQ	Pass	Malathion	100	200	<LOQ	Pass
Aldicarb	300	400	<LOQ	Pass	Metalaxyl	100	200	<LOQ	Pass
Azoxystrobin	100	200	<LOQ	Pass	Methiocarb	100	200	<LOQ	Pass
Bifenazate	100	200	<LOQ	Pass	Methomyl	100	400	<LOQ	Pass
Bifenthrin	100	200	<LOQ	Pass	Methyl Parathion	100	200	<LOQ	Pass
Boscalid	200	400	<LOQ	Pass	MGK-264	100	200	<LOQ	Pass
Carbaryl	100	200	<LOQ	Pass	Myclobutanil	100	200	<LOQ	Pass
Carbofuran	100	200	<LOQ	Pass	Naled	100	500	<LOQ	Pass
Chlorantraniliprole	100	200	<LOQ	Pass	Oxamyl	100	1000	<LOQ	Pass
Chlorfenapyr	400	1000	<LOQ	Pass	Paclobutrazol	100	400	<LOQ	Pass
Chlorpyrifos	150	200	<LOQ	Pass	Permethrins	150	200	<LOQ	Pass
Clofentezine	100	200	<LOQ	Pass	Phosmet	100	200	<LOQ	Pass
Cyfluthrin	400	1000	<LOQ	Pass	Piperonyl Butoxide	100	2000	<LOQ	Pass
Cypermethrin	400	1000	<LOQ	Pass	Prallethrin	150	200	<LOQ	Pass
Daminozide	400	1000	<LOQ	Pass	Propiconazole	200	400	<LOQ	Pass
Diazinon	100	200	<LOQ	Pass	Propoxur	100	200	<LOQ	Pass
Dichlorvos	150	1000	<LOQ	Pass	Pyrethrins	400	1000	<LOQ	Pass
Dimethoate	100	200	<LOQ	Pass	Pyridaben	100	200	<LOQ	Pass
Ethoprophos	100	200	<LOQ	Pass	Spinosad	100	200	<LOQ	Pass
Etofenprox	200	400	<LOQ	Pass	Spiromesifen	100	200	<LOQ	Pass
Etoxazole	100	200	<LOQ	Pass	Spirotetramat	100	200	<LOQ	Pass
Fenoxycarb	100	200	<LOQ	Pass	Spiroxamine	150	400	<LOQ	Pass
Fenpyroximate	200	400	<LOQ	Pass	Tebuconazole	100	400	<LOQ	Pass
Fipronil	100	400	<LOQ	Pass	Thiacloprid	100	200	<LOQ	Pass
Flonicamid	200	1000	<LOQ	Pass	Thiamethoxam	150	200	<LOQ	Pass
Fludioxonil	200	400	<LOQ	Pass	Trifloxystrobin	100	200	<LOQ	Pass
Hexythiazox	200	1000	<LOQ	Pass					

Method: Modified AOAC 2007.01, Triple Quad analysis; LOQ = Limit of Quantification; PPB = Parts Per Billion; ND = Not Detected; NR = Not Reported; ORELAP ID 4057



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Signature Daily Formula

Ingestible, Tincture
Harvest Process Lot: ; METRC Batch: ; METRC Sample:



Heavy Metals

Pass

12/15/2019

Analyte	Mass	LOQ	Limit	Status
	PPB	PPB	PPB	
Arsenic	2.26	0.10	200.00	Pass
Cadmium	<LOQ	0.10	200.00	Pass
Lead	9.74	0.10	500.00	Pass
Mercury	0.31	0.10	100.00	Pass



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Sampling: Random; Environment: Room Temp

Signature Daily Formula

Ingestible, Tincture

Harvest Process Lot: ; METRC Batch: ; METRC Sample:



Terpenes

126 GCFID2 20191213-3
12/13/2019

Analyte	Mass %	Mass mg/g	LOQ %	Analyte	Mass %	Mass mg/g	LOQ %
cis-Phytol	<LOQ	<LOQ	0.02	β-Myrcene	<LOQ	<LOQ	0.02
Valencene	<LOQ	<LOQ	0.02	γ-Terpinene	<LOQ	<LOQ	0.02
Sabinene	<LOQ	<LOQ	0.02	Anisole	<LOQ	<LOQ	0.02
Ocimene 1	<LOQ	<LOQ	0.02	Fenchone	<LOQ	<LOQ	0.02
Geraniol	<LOQ	<LOQ	0.02	Isoborneol	<LOQ	<LOQ	0.02
Neral	<LOQ	<LOQ	0.02	δ-Limonene	<LOQ	<LOQ	0.02
α-Humulene	<LOQ	<LOQ	0.02	Ocimene 2	<LOQ	<LOQ	0.02
α-Terpinene	<LOQ	<LOQ	0.02	Camphene	<LOQ	<LOQ	0.02
trans-Phytol	<LOQ	<LOQ	0.02	α-Phellandrene	<LOQ	<LOQ	0.02
Caryophyllene Oxide	<LOQ	<LOQ	0.02	γ-Terpineol	<LOQ	<LOQ	0.02
(-)-β-Pinene	<LOQ	<LOQ	0.02	Geranyl Acetate	<LOQ	<LOQ	0.02
α-Pinene	<LOQ	<LOQ	0.02	β-Caryophyllene	<LOQ	<LOQ	0.02
Camphor	<LOQ	<LOQ	0.02	Sabinene Hydrate	<LOQ	<LOQ	0.02
(-)-α-Bisabolol	<LOQ	<LOQ	0.02	Farnesene	<LOQ	<LOQ	0.02
α-Cedrene	<LOQ	<LOQ	0.02	Nerol	<LOQ	<LOQ	0.02
Terpinolene	<LOQ	<LOQ	0.02	trans-Nerolidol	<LOQ	<LOQ	0.02
Endo-Fenchyl Alcohol	<LOQ	<LOQ	0.02	Borneol	<LOQ	<LOQ	0.02
p-Isopropyltoluene	<LOQ	<LOQ	0.02	Hexahydro Thymol	<LOQ	<LOQ	0.02
Azulene	<LOQ	<LOQ	0.02	Squalene	<LOQ	<LOQ	0.02
α-Terpineol	<LOQ	<LOQ	0.02	δ-3-Carene	<LOQ	<LOQ	0.02
Cedrol	0.23	2.3	0.02	Eucalyptol	<LOQ	<LOQ	0.02
Citral	<LOQ	<LOQ	0.02	Eugenol	<LOQ	<LOQ	0.02
(-)-Guaiol	<LOQ	<LOQ	0.02	(-)-Isopulegol	<LOQ	<LOQ	0.02
β-Nerolidol	<LOQ	<LOQ	0.02	Pulegone	<LOQ	<LOQ	0.02
Linalool	<LOQ	<LOQ	0.02	cis-Nerolidol	<LOQ	<LOQ	0.02
Neryl Acetate	<LOQ	<LOQ	0.02				

Primary Aromas

0.23% Total Terpenes	 Wood				
-------------------------	----------	--	--	--	--

Method: GC-FID CH SOP 401; based on dry weight; LOQ = Limit of Quantification; NR = Not Reported; ND = Not Detected



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Signature Daily Formula

Ingestible, Tincture
Harvest Process Lot: ; METRC Batch: ; METRC Sample:



Microbials

Complete

12/15/2019

Analyte	Limit	Units	Status
Yeast & Mold	CFU/g	CFU/g	Tested
		<LOQ	

Method: AOAC Method 997.02 & 990.12; Based on wet weight; CFU = Colony Forming Unit; TNC = Too Numerous to Count; NR = Not Reported; ND = Not Detected



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Patrick Trujillo
Quality Assurance Director

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Harvest Process Lot: ; METRC Batch: ; METRC Sample:



Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
053 HPLC6 20191213-1	PMB12121901IN	Cannabinoids	Blank

QC Notes

None

Compounds	Blank Result	Blank Max % (LOQ)	Blank Result %	Notes
THCa	0	0.05	<LOQ	-
Δ9-THC	0	0.05	<LOQ	-
CBDa	0	0.05	<LOQ	-
CBD	0	0.05	<LOQ	-



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Signature Daily Formula

Ingestible, Tincture
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Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
053 HPLC6 20191213-1	PLCS12121901IN	Cannabinoids	Lab Control Sample

QC Notes

None

Compounds	LCS Result (%)	LCS Spike	LCS % Rec	% Limits	Notes
THCa	2.65	2.11	125.59	70 - 130	-
Δ9-THC	4.94	4.18	118.18	70 - 130	-
CBDa	1	0.91	109.89	70 - 130	-
CBD	4.66	3.75	124.27	57 - 143	-



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Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
053 HPLC6 20191213-1	PMS12121901IN	Cannabinoids	Spike

QC Notes

None

Compounds	LOQ	Matrix Duplicate % RPD	Duplicate RPD Notes	Matrix Spike % Rec	% Limits	Notes
THCa	0.02	<LOQ	<LOQ	133	70 - 130	Above Limit Range
Δ9-THC	0.02	0	<20	104	70 - 130	-
CBDa	0.02	<LOQ	<LOQ	140	70 - 130	Above Limit Range
CBD	0.02	0.5	<20	13	70 - 130	Below Limit Range



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Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
162 LCQQQ4 20191212-1	MRMB12121902CN LC	Required Pesticides	Blank

QC Notes

None

Compounds	LOQ (PPB)	Blank Result PPB	Notes
Acephate	100	<LOQ	
Acequinocyl	750	<LOQ	
Acetamiprid	100	<LOQ	
Aldicarb	300	<LOQ	
Abamectin	400	<LOQ	
Azoxystrobin	100	<LOQ	
Bifenazate	100	<LOQ	
Bifenthrin	100	<LOQ	
Boscalid	200	<LOQ	
Carbaryl	100	<LOQ	
Carbofuran	100	<LOQ	
Chlorantraniliprole	100	<LOQ	
Chlorpyrifos	150	<LOQ	
Clofentezine	100	<LOQ	
Daminozide	400	<LOQ	
Diazinon	100	<LOQ	
Dichlorvos	150	<LOQ	
Dimethoate	100	<LOQ	
Ethoprophos	100	<LOQ	
Etofenprox	200	<LOQ	
Etoxazole	100	<LOQ	
Fenoxycarb	100	<LOQ	
Fenpyroximate	200	<LOQ	
Flonicamid	200	<LOQ	
Hexythiazox	200	<LOQ	
Imazalil	100	<LOQ	
Imidacloprid	100	<LOQ	
Kresoxim Methyl	100	<LOQ	
Malathion	100	<LOQ	
Metalaxyl	100	<LOQ	



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Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
162 LCQQQ4 20191212-1	MRMB12121902CN LC	Required Pesticides	Blank

QC Notes

None

Compounds	LOQ (PPB)	Blank Result PPB	Notes
Methiocarb	100	<LOQ	
Methomyl	100	<LOQ	
Myclobutanil	100	<LOQ	
Naled	100	<LOQ	
Oxamyl	100	<LOQ	
Paclobutrazol	100	<LOQ	
Permethrin	150	<LOQ	
Phosmet	100	<LOQ	
Piperonyl Butoxide	100	<LOQ	
Prallethrin	150	<LOQ	
Propiconazole	200	<LOQ	
Propoxur	100	<LOQ	
Pyrethrins	400	<LOQ	
Pyridaben	100	<LOQ	
Spinosad	100	<LOQ	
Spiromesifen	100	<LOQ	
Spirotetramat	100	<LOQ	
Spiroxamine	150	<LOQ	
Tebuconazole	100	<LOQ	
Thiacloprid	100	<LOQ	
Thiamethoxam	150	<LOQ	
Trifloxystrobin	100	<LOQ	



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Thoughtcloud

Sample: 1912CH0252.1089

Portland, OR 97205
admin@thoughtcloud.net
(949) 664-0114
Lic. #

Strain: Full Spectrum CBD
Batch#: ; Batch Size: g
Sample Received: 12/13/2019; Report Created: 12/24/2019; Expires: 12/24/2020
Harvest/Production Date:
Sampling: Random; Environment: Room Temp

Signature Daily Formula

Ingestible, Tincture
Harvest Process Lot: ; METRC Batch: ; METRC Sample:



Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
380 GCQQQ2 20191213-2	MRMB12121902C	Required Pesticides	Blank

QC Notes

None

Compounds	LOQ (PPB)	Blank Result PPB	Notes
Chlorfenapyr	400	<LOQ	-
Cyfluthrin	400	<LOQ	-
Cypermethrin	400	<LOQ	-
Fipronil	100	<LOQ	-
Fludioxonil	200	<LOQ	-
MGK-264	100	<LOQ	-
Methyl Parathion	100	<LOQ	-



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Thoughtcloud

Sample: 1912CH0252.1089

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Lic. #

Strain: Full Spectrum CBD
Batch#: ; Batch Size: g
Sample Received: 12/13/2019; Report Created: 12/24/2019; Expires: 12/24/2020
Harvest/Production Date:
Sampling: Random; Environment: Room Temp

Signature Daily Formula

Ingestible, Tincture
Harvest Process Lot: ; METRC Batch: ; METRC Sample:



Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
162 LCQQQ4 20191212-1	MRLCS12121902CN LC	Required Pesticides	Lab Control Sample

QC Notes

None

Compounds	LCS % Rec	LCS % Limits	Notes
Acephate	97.72	56 - 149	-
Acequinocyl	93.08	30 - 142	-
Acetamiprid	97.17	56 - 149	-
Aldicarb	92.2	53 - 150	-
Abamectin	79.18	30 - 140	-
Azoxystrobin	99.33	55 - 138	-
Bifenazate	97.7	53 - 137	-
Bifenthrin	100.22	30 - 150	-
Boscalid	98.42	55 - 142	-
Carbaryl	101.32	56 - 150	-
Carbofuran	100.39	57 - 142	-
Chlorantraniliprole	99.62	54 - 141	-
Chlorpyrifos	98.57	34 - 150	-
Clofentezine	99.45	44 - 150	-
Daminozide	112.65	30 - 150	-
Diazinon	93.35	55 - 134	-
Dichlorvos	90.73	49 - 149	-
Dimethoate	95.86	56 - 149	-
Ethoprophos	90.69	52 - 143	-
Etofenprox	94.5	46 - 140	-
Etoxazole	43.96	50 - 134	Below Limit Range
Fenoxycarb	100.97	53 - 139	-
Fenproximate	89.43	45 - 127	-
Flonicamid	101.61	55 - 145	-
Hexythiazox	93.84	39 - 141	-
Imazalil	86.15	40 - 149	-
Imidacloprid	102.13	54 - 150	-
Kresoxim Methyl	98.24	57 - 139	-
Malathion	97.79	51 - 147	-
Metalaxyl	94.67	58 - 142	-



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Lic. #

Sample: 1912CH0252.1089

Strain: Full Spectrum CBD
Batch#: ; Batch Size: g
Sample Received: 12/13/2019; Report Created: 12/24/2019; Expires: 12/24/2020
Harvest/Production Date:
Sampling: Random; Environment: Room Temp

Signature Daily Formula

Ingestible, Tincture
Harvest Process Lot: ; METRC Batch: ; METRC Sample:



Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
162 LCQQQ4 20191212-1	MRLCS12121902CN LC	Required Pesticides	Lab Control Sample

QC Notes

None

Compounds	LCS % Rec	LCS % Limits	Notes
Methiocarb	98.47	50 - 150	-
Methomyl	96.68	55 - 150	-
Myclobutanil	102.78	54 - 145	-
Naled	92.85	49 - 146	-
Oxamyl	94.56	56 - 147	-
Paclobutrazol	100.66	56 - 139	-
Permethrin	109.66	30 - 138	-
Phosmet	101.34	57 - 146	-
Piperonyl Butoxide	91.97	48 - 146	-
Prallethrin	97.75	53 - 146	-
Propiconazole	96.91	49 - 129	-
Propoxur	100.54	56 - 150	-
Pyrethrins	96.25	30 - 150	-
Pyridaben	90.97	50 - 132	-
Spinosad	74.65	30 - 150	-
Spiromesifen	100.66	52 - 136	-
Spirotetramat	92.97	46 - 150	-
Spiroxamine	72	30 - 150	-
Tebuconazole	99.85	48 - 136	-
Thiacloprid	98.84	47 - 150	-
Thiamethoxam	102.02	57 - 147	-
Trifloxystrobin	98.99	46 - 147	-



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Strain: Full Spectrum CBD
Batch#: ; Batch Size: g
Sample Received: 12/13/2019; Report Created: 12/24/2019; Expires: 12/24/2020
Harvest/Production Date:
Sampling: Random; Environment: Room Temp

Signature Daily Formula

Ingestible, Tincture
Harvest Process Lot: ; METRC Batch: ; METRC Sample:



Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
380 GCQQQ2 20191213-2	MRLCS12121902C	Required Pesticides	Lab Control Sample

QC Notes

None

Compounds	LCS % Rec	% Limits	Notes
Chlorfenapyr	102	69 - 132	-
Cyfluthrin	93	68 - 136	-
Cypermethrin	93	67 - 134	-
Fipronil	96	67 - 136	-
Fludioxonil	101	69 - 139	-
MGK-264	101	65 - 145	-
Parathion Methyl	95	66 - 131	-



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Sample: 1912CH0252.1089

Strain: Full Spectrum CBD
Batch#: ; Batch Size: g
Sample Received: 12/13/2019; Report Created: 12/24/2019; Expires: 12/24/2020
Harvest/Production Date:
Sampling: Random; Environment: Room Temp

Signature Daily Formula

Ingestible, Tincture
Harvest Process Lot: ; METRC Batch: ; METRC Sample:



Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
162 LCQQQ4 20191212-1	MRMS12121902CN LC	Required Pesticides	Spike

QC Notes

None

Compounds	Matrix Spike Duplicate % RPD	RPD Max %	% RPD Result	Matrix Spike % Rec	% Limits	Notes
Acephate	7.08	30	<30	126.13	52 - 150	-
Acequinocyl	17.71	30	<30	80.45	30 - 147	-
Acetamiprid	8.56	30	<30	128.09	47 - 148	-
Aldicarb	7.71	30	<30	121.61	48 - 145	-
Abamectin	19.28	30	<30	55.9	41 - 150	-
Azoxystrobin	6.31	30	<30	129.65	50 - 150	-
Bifenazate	1.31	30	<30	120.23	50 - 150	-
Bifenthrin	15.72	30	<30	78.78	46 - 150	-
Boscalid	10.86	30	<30	114.62	50 - 150	-
Carbaryl	3.45	30	<30	124.15	57 - 150	-
Carbofuran	6.23	30	<30	125.39	51 - 150	-
Chlorantraniliprole	5.38	30	<30	114.77	52 - 150	-
Chlorpyrifos	5.99	30	<30	77.6	30 - 150	-
Clofentezine	6.89	30	<30	60.3	53 - 146	-
Daminozide	21.41	30	<30	138.33	30 - 150	-
Diazinon	1.37	30	<30	90.55	41 - 145	-
Dichlorvos	2.33	30	<30	115.57	54 - 141	-
Dimethoate	6.21	30	<30	126.49	49 - 149	-
Ethoprophos	2.6	30	<30	98.89	47 - 146	-
Etofenprox	16.14	30	<30	97.67	38 - 150	-
Etoxazole	104.51	30	>30	119.42	34 - 150	-
Fenoxycarb	2.83	30	<30	100.17	54 - 150	-
Fenproximate	15.54	30	<30	90.73	34 - 150	-
Flonicamid	17.29	30	<30	151.37	45 - 143	Above Limit Range
Hexythiazox	1.04	30	<30	64.02	30 - 150	-
Imazalil	6.01	30	<30	75.11	30 - 147	-
Imidacloprid	9.25	30	<30	135.27	43 - 148	-
Kresoxim Methyl	0.97	30	<30	98.1	56 - 144	-
Malathion	2.21	30	<30	124.2	55 - 150	-
Metalaxyl	8.34	30	<30	109.21	50 - 150	-



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Strain: Full Spectrum CBD
Batch#: ; Batch Size: g
Sample Received: 12/13/2019; Report Created: 12/24/2019; Expires: 12/24/2020
Harvest/Production Date:
Sampling: Random; Environment: Room Temp

Signature Daily Formula

Ingestible, Tincture
Harvest Process Lot: ; METRC Batch: ; METRC Sample:



Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
162 LCQQQ4 20191212-1	MRMS12121902CN LC	Required Pesticides	Spike

QC Notes

None

Compounds	Matrix Spike Duplicate % RPD	RPD Max %	% RPD Result	Matrix Spike % Rec	% Limits	Notes
Methiocarb	2	30	<30	123.01	50 - 150	-
Methomyl	8.95	30	<30	127.05	42 - 150	-
Myclobutanil	4.04	30	<30	122.91	43 - 150	-
Naled	6.87	30	<30	103.65	46 - 150	-
Oxamyl	7.58	30	<30	124.31	41 - 150	-
Paclobutrazol	1.23	30	<30	116.95	47 - 150	-
Permethrin	18.37	30	<30	62.12	37 - 150	-
Phosmet	11.25	30	<30	112.35	35 - 150	-
Piperonyl Butoxide	0.73	30	<30	96.98	30 - 149	-
Prallethrin	4.53	30	<30	58.95	46 - 150	-
Propiconazole	1.87	30	<30	80.33	40 - 150	-
Propoxur	6.18	30	<30	126.15	53 - 150	-
Pyrethrins	16.73	30	<30	81.01	30 - 150	-
Pyridaben	19.79	30	<30	82.58	41 - 150	-
Spinosad	0.24	30	<30	58.29	30 - 150	-
Spiromesifen	7.19	30	<30	108.91	43 - 150	-
Spirotetramat	7.87	30	<30	122.25	48 - 150	-
Spiroxamine	9.95	30	<30	71.23	30 - 143	-
Tebuconazole	0.54	30	<30	73.07	45 - 150	-
Thiacloprid	3.51	30	<30	126.47	50 - 147	-
Thiamethoxam	4.6	30	<30	135.35	40 - 147	-
Trifloxystrobin	8.46	30	<30	90.47	50 - 150	-



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Thoughtcloud

Sample: 1912CH0252.1089

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(949) 664-0114
Lic. #

Strain: Full Spectrum CBD
Batch#: ; Batch Size: g
Sample Received: 12/13/2019; Report Created: 12/24/2019; Expires: 12/24/2020
Harvest/Production Date:
Sampling: Random; Environment: Room Temp

Signature Daily Formula

Ingestible, Tincture
Harvest Process Lot: ; METRC Batch: ; METRC Sample:



Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
380 GCQQQ2 20191213-2	MRMS12121902C	Required Pesticides	Spike

QC Notes

None

Compounds	Matrix Spike Duplicate % RPD	RPD Max %	% RPD Result	Matrix Spike % Rec	% Limits	Notes
Chlorfenapyr	4.56	20	<20	107.87	62 - 130	
Cyfluthrin	7.11	20	<20	100.87	63 - 128	
Cypermethrin	2.08	20	<20	107.52	58 - 126	
Fipronil	5.74	20	<20	102.29	62 - 134	
Fludioxonil	2.55	20	<20	105	62 - 139	
MGK-264	0.52	20	<20	102.07	56 - 150	
Methyl Parathion	5.29	20	<20	102.42	63 - 135	



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Lic. #

Sample: 1912CH0252.1089

Strain: Full Spectrum CBD

Batch#: ; Batch Size: g

Sample Received: 12/13/2019; Report Created: 12/24/2019; Expires: 12/24/2020

Harvest/Production Date:

Sampling: Random; Environment: Room Temp

Signature Daily Formula

Ingestible, Tincture

Harvest Process Lot: ; METRC Batch: ; METRC Sample:



Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
444 GCMS2 20191213-1	RSMB12121901	Required Solvents	Blank

QC Notes

None

Compounds	Method LOQ (PPM)	Blank Result PPM	Notes
Xylenes	30	<LOQ	-
1,4-Dioxane	10	<LOQ	-
2-Butanol	50	<LOQ	-
2-Ethoxy-Ethanol	10	<LOQ	-
2-Methyl-Butane	10	<LOQ	-
2-Methyl-Pentane	10	<LOQ	-
2,2-Dimethyl-Butane	10	<LOQ	-
2,3-Dimethyl-Butane	10	<LOQ	-
3-Methyl-Pentane	10	<LOQ	-
Acetone	10	<LOQ	-
Acetonitrile	40	<LOQ	-
Benzene	0.5	<LOQ	-
Butane	10	<LOQ	-
Cumene	10	<LOQ	-
Cyclohexane	10	<LOQ	-
Dichloro-Methane	10	<LOQ	-
Ethyl-Acetate	10	<LOQ	-
Ethyl-Benzene	10	<LOQ	-
Ethyl-Ether	10	<LOQ	-
Ethylene Glycol	500	<LOQ	-
Ethylene Oxide	10	<LOQ	-
Heptane	10	<LOQ	-
Isobutane	50	<LOQ	-
Isopropyl-Acetate	50	<LOQ	-
Isopropyl Alcohol	10	<LOQ	-
Methanol	40	<LOQ	-
Neopentane	10	<LOQ	-
n-Hexane	10	<LOQ	-
Pentane	10	<LOQ	-
Propane	50	<LOQ	-

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Lic. #

Strain: Full Spectrum CBD
Batch#: ; Batch Size: g
Sample Received: 12/13/2019; Report Created: 12/24/2019; Expires: 12/24/2020
Harvest/Production Date:
Sampling: Random; Environment: Room Temp

Signature Daily Formula

Ingestible, Tincture
Harvest Process Lot: ; METRC Batch: ; METRC Sample:



Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
444 GCMS2 20191213-1	RSMB12121901	Required Solvents	Blank

QC Notes

None

Compounds	Method LOQ (PPM)	Blank Result PPM	Notes
Tetrahydrofuran	10	<LOQ	-
Toluene	10	<LOQ	-



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Sample: 1912CH0252.1089

Strain: Full Spectrum CBD
Batch#: ; Batch Size: g
Sample Received: 12/13/2019; Report Created: 12/24/2019; Expires: 12/24/2020
Harvest/Production Date:
Sampling: Random; Environment: Room Temp

Signature Daily Formula

Ingestible, Tincture
Harvest Process Lot: ; METRC Batch: ; METRC Sample:



Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
444 GCMS2 20191213-1	RSLCS12121901	Required Solvents	Lab Control Sample

QC Notes

None

Compounds	LCS % Rec	% Limits	Notes
Xylenes	75.67	69 - 131	-
1,4-Dioxane	84.8	67 - 133	-
2-Butanol	75.6	70 - 130	-
2-Ethoxy-Ethanol	72.4	70 - 130	-
2-Methyl-Butane	84.6	52 - 148	-
2-Methyl-Pentane	92.8	54 - 146	-
2,2-Dimethyl-Butane	94.2	54 - 146	-
2,3-Dimethyl-Butane	92.8	53 - 147	-
3-Methyl-Pentane	89.8	55 - 145	-
Acetone	89	56 - 144	-
Acetonitrile	87.6	60 - 140	-
Benzene	92.94	70 - 130	-
Butane	67.8	42 - 150	-
Cumene	78.8	68 - 132	-
Cyclohexane	92	56 - 144	-
Dichloro-Methane	94.8	58 - 142	-
Ethyl-Acetate	82	61 - 139	-
Ethyl-Benzene	80.6	61 - 139	-
Ethyl-Ether	97.6	55 - 145	-
Ethylene Glycol	35.6	33 - 150	-
Ethylene Oxide	84.8	65 - 135	-
Heptane	90.8	51 - 149	-
Isobutane	66	37 - 150	-
Isopropyl-Acetate	84.4	61 - 139	-
Isopropyl Alcohol	87.8	70 - 130	-
Methanol	83.8	56 - 144	-
Neopentane	74.4	42 - 150	-
n-Hexane	88.98	53 - 147	-
Pentane	80	51 - 149	-
Propane	109	30 - 150	-



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Lic. #

Sample: 1912CH0252.1089

Strain: Full Spectrum CBD
Batch#: ; Batch Size: g
Sample Received: 12/13/2019; Report Created: 12/24/2019; Expires: 12/24/2020
Harvest/Production Date:
Sampling: Random; Environment: Room Temp

Signature Daily Formula

Ingestible, Tincture
Harvest Process Lot: ; METRC Batch: ; METRC Sample:



Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
444 GCMS2 20191213-1	RSLCS12121901	Required Solvents	Lab Control Sample

QC Notes

None

Compounds	LCS % Rec	% Limits	Notes
Tetrahydrofuran	84.2	60 - 140	-
Toluene	88.6	62 - 138	-



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Certificate of Analysis

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Thoughtcloud

Sample: 1912CH0252.1089

Portland, OR 97205
admin@thoughtcloud.net
(949) 664-0114
Lic. #

Strain: Full Spectrum CBD
Batch#: ; Batch Size: g
Sample Received: 12/13/2019; Report Created: 12/24/2019; Expires: 12/24/2020
Harvest/Production Date:
Sampling: Random; Environment: Room Temp

Signature Daily Formula

Ingestible, Tincture
Harvest Process Lot: ; METRC Batch: ; METRC Sample:



Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
444 GCMS2 20191213-1	RSMS12121901	Required Solvents	Spike

QC Notes

None

Compounds	LOQ	Matrix Duplicate % RPD	Duplicate RPD Notes	Matrix Spike % Rec	% Limits	Notes
Xylenes	30	<LOQ	<LOQ	64	30 - 142	-
1,4-Dioxane	10	<LOQ	<LOQ	94	53 - 147	-
2-Butanol	50	<LOQ	<LOQ	86	70 - 130	-
2-Ethoxy-Ethanol	10	<LOQ	<LOQ	86	53 - 147	-
2-Methyl-Butane	10	<LOQ	<LOQ	82	34 - 150	-
2-Methyl-Pentane	10	<LOQ	<LOQ	89	45 - 150	-
2,2-Dimethyl-Butane	10	<LOQ	<LOQ	88	44 - 150	-
2,3-Dimethyl-Butane	10	<LOQ	<LOQ	89	45 - 150	-
3-Methyl-Pentane	10	<LOQ	<LOQ	89	45 - 150	-
Acetone	10	<LOQ	<LOQ	88	30 - 150	-
Acetonitrile	40	<LOQ	<LOQ	94	50 - 150	-
Benzene	0.5	<LOQ	<LOQ	91	56 - 144	-
Butane	10	<LOQ	<LOQ	67	30 - 150	-
Cumene	10	<LOQ	<LOQ	63	30 - 150	-
Cyclohexane	10	<LOQ	<LOQ	90	47 - 150	-
Dichloro-Methane	10	<LOQ	<LOQ	95	49 - 150	-
Ethyl-Acetate	10	<LOQ	<LOQ	84	30 - 150	-
Ethyl-Benzene	10	<LOQ	<LOQ	71	48 - 150	-
Ethyl-Ether	10	<LOQ	<LOQ	91	45 - 150	-
Ethylene Glycol	500	<LOQ	<LOQ	94	30 - 150	-
Ethylene Oxide	10	<LOQ	<LOQ	88	53 - 147	-
Heptane	10	<LOQ	<LOQ	82	44 - 150	-
Isobutane	50	<LOQ	<LOQ	67	30 - 150	-
Isopropyl-Acetate	50	<LOQ	<LOQ	86	49 - 150	-
Isopropyl Alcohol	10	<LOQ	<LOQ	86	70 - 130	-
Methanol	40	<LOQ	<LOQ	91	30 - 150	-
Neopentane	10	<LOQ	<LOQ	75	31 - 150	-
n-Hexane	10	<LOQ	<LOQ	89	43 - 150	-
Pentane	10	<LOQ	<LOQ	79	40 - 150	-
Propane	50	<LOQ	<LOQ	107	30 - 150	-



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Ingestible, Tincture
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Quality Control Data

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444 GCMS2 20191213-1	RSMS12121901	Required Solvents	Spike

QC Notes

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