



Certificate of Analysis

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

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1 of 23

Thoughtcloud

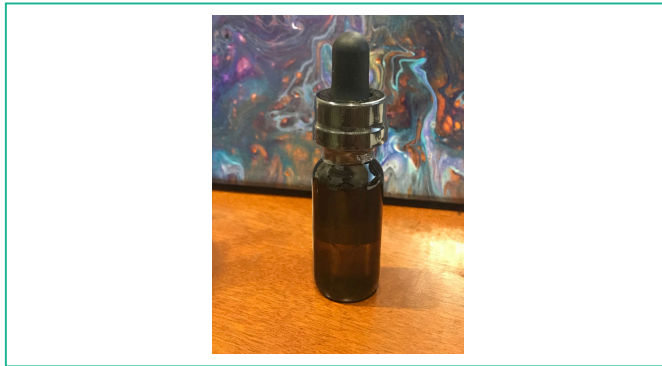
Portland, OR 97205
admin@thoughtcloud.net
(949) 664-0114
Lic. #

Sample: 1912CH0235.0993

Strain: CBD ISOLATE
Batch#: ; Batch Size: g
Sample Received: 12/12/2019; Report Created: 12/19/2019; Expires: 12/19/2020
Harvest/Production Date:
Sampling: Random; Environment: Room Temp

CBD Isolate 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
30 servings/container, <LOQ

Complete

<LOQ	24.670 mg/serving
Δ9-THC/serving	Total CBD

0.000 mg/container	740.094mg of Total CBD per container
Δ9-THC/container	Total CBD

Total Cannabinoids Analyzed: 24.790 mg/serving

Analyte	LOQ	Mass	Mass	Mass
	mg/g	mg/serving	mg/g	%
THCa	0.200	<LOQ	<LOQ	<LOQ
Δ9-THC	0.200	<LOQ	<LOQ	<LOQ
THCV	0.200	<LOQ	<LOQ	<LOQ
CBDa	0.200	<LOQ	<LOQ	<LOQ
CBD	0.200	24.670	49.340	4.9340
CBDV	0.200	0.120	0.240	0.0240
CBN	0.200	<LOQ	<LOQ	<LOQ
CBGa	0.200	<LOQ	<LOQ	<LOQ
CBG	0.200	<LOQ	<LOQ	<LOQ
CBC	0.200	<LOQ	<LOQ	<LOQ
Total		24.790	49.580	4.9580

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



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CBD Isolate Formula

Ingestible, Tincture
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	<LOQ	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

163LCQQ4 20191213-1

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
Etoazole	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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CBD Isolate 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	0.79	0.10	200.00	Pass
Cadmium	<LOQ	0.10	200.00	Pass
Lead	5.80	0.10	500.00	Pass
Mercury	0.79	0.10	100.00	Pass



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CBD Isolate 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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CBD Isolate Formula

Ingestible, Tincture
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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Harvest/Production Date:
Sampling: Random; Environment: Room Temp

CBD Isolate Formula

Ingestible, Tincture
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	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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Sampling: Random; Environment: Room Temp

CBD Isolate Formula

Ingestible, Tincture
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	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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CBD Isolate Formula

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



Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
163 LCQQQ4 20191213-1	MRMB.12121901CN	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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Ingestible, Tincture
Harvest Process Lot: ; METRC Batch: ; METRC Sample:



Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
163 LCQQQ4 20191213-1	MRMB.12121901CN	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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CBD Isolate 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 20191213-3	MRMB12121901C	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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163 LCQQQ4 20191213-1	MRLCS.12121901CN	Required Pesticides	Lab Control Sample

QC Notes

None

Compounds	LCS % Rec	LCS % Limits	Notes
Acephate	93.38	56 - 149	-
Acequinocyl	95.68	30 - 142	-
Acetamiprid	97.85	56 - 149	-
Aldicarb	95.25	53 - 150	-
Abamectin	79.97	30 - 140	-
Azoxystrobin	96.5	55 - 138	-
Bifenazate	103.78	53 - 137	-
Bifenthrin	104.94	30 - 150	-
Boscalid	99.15	55 - 142	-
Carbaryl	104.18	56 - 150	-
Carbofuran	101.45	57 - 142	-
Chlorantraniliprole	99.15	54 - 141	-
Chlorpyrifos	108.42	34 - 150	-
Clofentezine	110.34	44 - 150	-
Daminozide	82.51	30 - 150	-
Diazinon	94.78	55 - 134	-
Dichlorvos	98.04	49 - 149	-
Dimethoate	94.65	56 - 149	-
Ethoprophos	88.47	52 - 143	-
Etofenprox	97.77	46 - 140	-
Etoxazole	85.55	50 - 134	-
Fenoxycarb	104.58	53 - 139	-
Fenproximate	95.36	45 - 127	-
Flonicamid	106.23	55 - 145	-
Hexythiazox	116.4	39 - 141	-
Imazalil	77.71	40 - 149	-
Imidacloprid	101.49	54 - 150	-
Kresoxim Methyl	101.1	57 - 139	-
Malathion	98.11	51 - 147	-
Metalaxyl	94.33	58 - 142	-



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Thoughtcloud

Sample: 1912CH0235.0993

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

Strain: CBD ISOLATE
Batch#: ; Batch Size: g
Sample Received: 12/12/2019; Report Created: 12/19/2019; Expires: 12/19/2020
Harvest/Production Date:
Sampling: Random; Environment: Room Temp

CBD Isolate Formula

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



Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
163 LCQQQ4 20191213-1	MRLCS.12121901CN	Required Pesticides	Lab Control Sample

QC Notes

None

Compounds	LCS % Rec	LCS % Limits	Notes
Methiocarb	101.04	50 - 150	-
Methomyl	96.49	55 - 150	-
Myclobutanil	104.16	54 - 145	-
Naled	97.34	49 - 146	-
Oxamyl	97.06	56 - 147	-
Paclobutrazol	100.27	56 - 139	-
Permethrin	101.44	30 - 138	-
Phosmet	98.21	57 - 146	-
Piperonyl Butoxide	99.75	48 - 146	-
Prallethrin	104.04	53 - 146	-
Propiconazole	101.4	49 - 129	-
Propoxur	101.46	56 - 150	-
Pyrethrins	103.1	30 - 150	-
Pyridaben	98.34	50 - 132	-
Spinosad	54.77	30 - 150	-
Spiromesifen	105.71	52 - 136	-
Spirotetramat	96.03	46 - 150	-
Spiroxamine	60.21	30 - 150	-
Tebuconazole	101.18	48 - 136	-
Thiacloprid	99.75	47 - 150	-
Thiamethoxam	99.82	57 - 147	-
Trifloxystrobin	99.25	46 - 147	-



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Lic. #

Sample: 1912CH0235.0993

Strain: CBD ISOLATE
Batch#: ; Batch Size: g
Sample Received: 12/12/2019; Report Created: 12/19/2019; Expires: 12/19/2020
Harvest/Production Date:
Sampling: Random; Environment: Room Temp

CBD Isolate 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 20191213-3	MRLCS12121901C	Required Pesticides	Lab Control Sample

QC Notes

None

Compounds	LCS % Rec	% Limits	Notes
Chlorfenapyr	96	69 - 132	-
Cyfluthrin	89	68 - 136	-
Cypermethrin	90	67 - 134	-
Fipronil	96	67 - 136	-
Fludioxonil	88	69 - 139	-
MGK-264	96	65 - 145	-
Parathion Methyl	86	66 - 131	-



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Sample: 1912CH0235.0993

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Strain: CBD ISOLATE
Batch#: ; Batch Size: g
Sample Received: 12/12/2019; Report Created: 12/19/2019; Expires: 12/19/2020
Harvest/Production Date:
Sampling: Random; Environment: Room Temp

CBD Isolate Formula

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



Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
163 LCQQQ4 20191213-1	MRMS.12121901CN	Required Pesticides	Spike

QC Notes

None

Compounds	Matrix Spike Duplicate % RPD	RPD Max %	% RPD Result	Matrix Spike % Rec	% Limits	Notes
Acephate	1.63	30	<30	155.42	52 - 150	Above Limit Range
Acequinocyl	5.78	30	<30	58.79	30 - 147	-
Acetamiprid	0.74	30	<30	171.14	47 - 148	Above Limit Range
Aldicarb	1.47	30	<30	168.14	48 - 145	Above Limit Range
Abamectin	5.64	30	<30	60.48	41 - 150	-
Azoxystrobin	0.54	30	<30	165.83	50 - 150	Above Limit Range
Bifenazate	5.01	30	<30	139.43	50 - 150	-
Bifenthrin	2.89	30	<30	76.45	46 - 150	-
Boscalid	1.35	30	<30	155.42	50 - 150	Above Limit Range
Carbaryl	4.47	30	<30	176.76	57 - 150	Above Limit Range
Carbofuran	1.92	30	<30	173.59	51 - 150	Above Limit Range
Chlorantraniliprole	1.11	30	<30	173.15	52 - 150	Above Limit Range
Chlorpyrifos	25.22	30	<30	21.97	30 - 150	Below Limit Range
Clofentezine	3.37	30	<30	60.4	53 - 146	-
Daminozide	6.34	30	<30	125.79	30 - 150	-
Diazinon	2.47	30	<30	95.01	41 - 145	-
Dichlorvos	6.03	30	<30	155.27	54 - 141	Above Limit Range
Dimethoate	1.2	30	<30	168.55	49 - 149	Above Limit Range
Ethoprophos	6.89	30	<30	111.64	47 - 146	-
Etofenprox	0.1	30	<30	100.61	38 - 150	-
Etoxazole	2.58	30	<30	136.04	34 - 150	-
Fenoxycarb	2.44	30	<30	115.85	54 - 150	-
Fenproximate	4.96	30	<30	102.82	34 - 150	-
Fonicamid	3.64	30	<30	181.67	45 - 143	Above Limit Range
Hexythiazox	18.79	30	<30	12.2	30 - 150	Below Limit Range
Imazalil	3.19	30	<30	121.39	30 - 147	-
Imidacloprid	0.23	30	<30	171.44	43 - 148	Above Limit Range
Kresoxim Methyl	4.86	30	<30	106.84	56 - 144	-
Malathion	0.61	30	<30	152.16	55 - 150	Above Limit Range
Metalaxyl	1.29	30	<30	156.26	50 - 150	Above Limit Range



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Sample: 1912CH0235.0993

Strain: CBD ISOLATE
Batch#: ; Batch Size: g
Sample Received: 12/12/2019; Report Created: 12/19/2019; Expires: 12/19/2020
Harvest/Production Date:
Sampling: Random; Environment: Room Temp

CBD Isolate Formula

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



Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
163 LCQQQ4 20191213-1	MRMS.12121901CN	Required Pesticides	Spike

QC Notes

None

Compounds	Matrix Spike Duplicate % RPD	RPD Max %	% RPD Result	Matrix Spike % Rec	% Limits	Notes
Methiocarb	1.24	30	<30	162.42	50 - 150	Above Limit Range
Methomyl	1.82	30	<30	170	42 - 150	Above Limit Range
Myclobutanil	5.61	30	<30	135.85	43 - 150	-
Naled	2.92	30	<30	156.79	46 - 150	Above Limit Range
Oxamyl	0.38	30	<30	166.06	41 - 150	Above Limit Range
Paclobutrazol	2.37	30	<30	142.36	47 - 150	-
Permethrin	6.78	30	<30	60.55	37 - 150	-
Phosmet	0.22	30	<30	160.44	35 - 150	Above Limit Range
Piperonyl Butoxide	11.66	30	<30	51.43	30 - 149	-
Prallethrin	4.93	30	<30	59.32	46 - 150	-
Propiconazole	0.51	30	<30	85.35	40 - 150	-
Propoxur	2.67	30	<30	175.52	53 - 150	Above Limit Range
Pyrethrins	2.62	30	<30	88.99	30 - 150	-
Pyridaben	3	30	<30	88.92	41 - 150	-
Spinosad	8.32	30	<30	74.25	30 - 150	-
Spiromesifen	1.52	30	<30	82.42	43 - 150	-
Spirotetramat	0.97	30	<30	162.08	48 - 150	Above Limit Range
Spiroxamine	3.04	30	<30	110.99	30 - 143	-
Tebuconazole	4.96	30	<30	76.61	45 - 150	-
Thiacloprid	0.09	30	<30	171	50 - 147	Above Limit Range
Thiamethoxam	3.03	30	<30	170.92	40 - 147	Above Limit Range
Trifloxystrobin	3.65	30	<30	86.74	50 - 150	-



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Sample: 1912CH0235.0993

Strain: CBD ISOLATE
Batch#: ; Batch Size: g
Sample Received: 12/12/2019; Report Created: 12/19/2019; Expires: 12/19/2020
Harvest/Production Date:
Sampling: Random; Environment: Room Temp

CBD Isolate 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 20191213-3	MRMS12121901C	Required Pesticides	Spike

QC Notes

None

Compounds	Matrix Spike Duplicate % RPD	RPD Max %	% RPD Result	Matrix Spike % Rec	% Limits	Notes
Chlorfenapyr	8.29	20	<20	115.16	62 - 130	
Cyfluthrin	4.99	20	<20	116.17	63 - 128	
Cypermethrin	0.93	20	<20	130.77	58 - 126	Above Limit Range
Fipronil	4.3	20	<20	115.23	62 - 134	
Fludioxonil	2.86	20	<20	109.48	62 - 139	
MGK-264	3.67	20	<20	117.65	56 - 150	
Methyl Parathion	7.36	20	<20	109.53	63 - 135	



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Lic. #

Sample: 1912CH0235.0993

Strain: CBD ISOLATE
Batch#: ; Batch Size: g
Sample Received: 12/12/2019; Report Created: 12/19/2019; Expires: 12/19/2020
Harvest/Production Date:
Sampling: Random; Environment: Room Temp

CBD Isolate 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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Strain: CBD ISOLATE
Batch#: ; Batch Size: g
Sample Received: 12/12/2019; Report Created: 12/19/2019; Expires: 12/19/2020
Harvest/Production Date:
Sampling: Random; Environment: Room Temp

CBD Isolate 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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Strain: CBD ISOLATE
Batch#: ; Batch Size: g
Sample Received: 12/12/2019; Report Created: 12/19/2019; Expires: 12/19/2020
Harvest/Production Date:
Sampling: Random; Environment: Room Temp

CBD Isolate 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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Batch#: ; Batch Size: g
Sample Received: 12/12/2019; Report Created: 12/19/2019; Expires: 12/19/2020
Harvest/Production Date:
Sampling: Random; Environment: Room Temp

CBD Isolate 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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Sample: 1912CH0235.0993

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Strain: CBD ISOLATE
Batch#: ; Batch Size: g
Sample Received: 12/12/2019; Report Created: 12/19/2019; Expires: 12/19/2020
Harvest/Production Date:
Sampling: Random; Environment: Room Temp

CBD Isolate 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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Certificate of Analysis

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Thoughtcloud

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

Sample: 1912CH0235.0993

Strain: CBD ISOLATE
Batch#: ; Batch Size: g
Sample Received: 12/12/2019; Report Created: 12/19/2019; Expires: 12/19/2020
Harvest/Production Date:
Sampling: Random; Environment: Room Temp

CBD Isolate 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
Tetrahydrofuran	10	<LOQ	<LOQ	90	49 - 150	-
Toluene	10	<LOQ	<LOQ	84	49 - 150	-



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