



License No. 800025015  
FL License # CMTL-0003  
CLIA No. 10D1094068

## Certificate of Analysis

Compliance Test

**MEDTERRA CBD, LLC**  
9805 RESEARCH DR  
IRVINE, CALIFORNIA 92618

Batch # MDUBS2K102921  
Batch Date: 2021-11-01  
Extracted From: CBD  
Sampling Method: MSP 7.3.1

Test Reg State: Florida

Cultivation Date: 0000-00-00  
Production Date: 0000-00-00

Order # MED211101-010001  
Order Date: 2021-11-01  
Sample # AACD048

Sampling Date: 2021-11-02  
Lab Batch Date: 2021-11-02  
Completion Date: 2021-11-09

Initial Gross Weight: 80.590 g  
Net Weight: 30.861 g

Number of Units: 1  
Net Weight per Unit: 30861.000 mg



Product Image



Potency  
Tested



Terpenes  
Tested



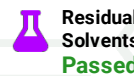
Heavy Metals  
Passed



Mycotoxins  
Passed



Pesticides  
Passed



Residual  
Solvents  
Passed



Pathogenic  
Microbiology  
Passed



Listeria  
Monocytogenes  
Passed



### Potency - 11

Specimen Weight: 89.460 mg

Analyte	Dilution (1:n)	LOD (%)	LOQ (%)	Result (mg/g)	(%)
CBD	100.000	0.000054	0.001	70.220	7.022
CBC	10.000	0.000018	0.001	2.729	0.273
CBG	100.000	0.000248	0.001	1.879	0.188
CBN	10.000	0.000014	0.001	1.041	0.104
CBDA	10.000	0.000001	0.001	0.959	0.096
Delta-8 THC	10.000	0.000026	0.001	<LOQ	
Delta-9 THC	10.000	0.000013	0.001	<LOQ	
CBGA	10.000	0.000008	0.001	<LOQ	
THCV	10.000	0.000007	0.001	<LOQ	
CBDV	10.000	0.000065	0.001	<LOQ	
THCA-A	10.000	0.000032	0.001	<LOQ	

Sample Prepared By: 1195 Date: 2021-11-03 20:04:25 Sample Analyzed By: 1199 Date: 2021-11-03 12:58:35  
Batch Reviewed By: 1156 Date: 2021-11-05 14:25:06 Lab Batch #: AACD048-174 Date: 2021-11-05 14:25:06

### Tested (HPLC/LC/MS)



### Potency Summary

Total THC None Detected	7.106%	Total CBD 2,192.983mg
Total CBG 0.188% 58.019mg	0.104%	Total CBN 32.095mg
Other Cannabinoids 0.273% 84.251mg	7.671%	Total Cannabinoids 2,367.347mg



### Terpenes Summary

Analyte	Result (mg/g)	(%)
Total Terpenes: 0.000%		

Detailed Terpenes Analysis is on the following page

Xueli Gao  
Ph.D., DABT  
Lab Toxicologist

Aixia Sun  
D.H.Sc., M.Sc., B.Sc., MT (AAB)  
Lab Director/Principal Scientist



Definitions and Abbreviations used in this report: \*Total CBD = CBD + (CBD-A \* 0.877), \*Total CBDV = CBDV + (CBDVA \* 0.87), \*Total THC = THCA-A \* 0.877 + Delta 9 THC, \*Total THCV = THCV + (THCVA \* 0.87), \*CBG Total = (CBGA \* 0.877) + CBG, \*CBN Total = (CBNA \* 0.877) + CBN, \*Total CBC = CBC + (CBCA \* 0.877), \*Other Cannabinoids Total = Total Cannabinoids - All the listed cannabinoids on the summary section, \*Total Detected Cannabinoids = Delta8-THC + Total CBN + CBT + Delta8-THCV + Total CBG + Total CBD + Total THCV + CBL + Total THC + Total CBC + Total CBDV + Delta10-THC, \*Total THC-O-Acetate = Delta 8 THC-O-Acetate + THC-O-Acetate, \*Analyte Details above show the Dry Weight Concentrations unless specified as 12% moisture concentration. (mg/ml) = Milligrams per Milliliter, LOQ = Limit of Quantitation, LOD = Limit of Detection, Dilution = Dilution Factor (ppb) = Parts per Billion, (%) = Percent, (cfu/g) = Colony Forming Unit per Gram (cfu/g) = Colony Forming Unit per Gram, LOD = Limit of Detection, (µg/g) = Microgram per Gram (ppm) = Parts per Million, (ppm) = (µg/g), (aw) = aw (area ratio) = Area Ratio, (mg/Kg) = Milligram per Kilogram

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Sampling Method: MSP 7.3.1

Test Reg State: Florida

Cultivation Date: 0000-00-00  
Production Date: 0000-00-00

Order # MED211101-010001  
Order Date: 2021-11-01  
Sample # AACD048

Sampling Date: 2021-11-02  
Lab Batch Date: 2021-11-02  
Completion Date: 2021-11-09

Initial Gross Weight: 80.590 g  
Net Weight: 30.861 g

Number of Units: 1  
Net Weight per Unit: 30861.000 mg



### Terpenes

Specimen Weight: 89.460 mg

Tested  
(GC/GCMS)

Dilution Factor: 20.000

Analyte	LOQ (%)	Result (mg/g)	(%)	Analyte	LOQ (%)	Result (mg/g)	(%)
(+)-Cedrol	0.02	<LOQ		Nerol	0.02	<LOQ	
Geraniol	0.02	<LOQ		Geranyl acetate	0.02	<LOQ	
Guaiaol	0.02	<LOQ		Hexahydrothymol	0.02	<LOQ	
Isoborneol	0.02	<LOQ		Isopulegol	0.02	<LOQ	
Linalool	0.02	<LOQ		Ocimene	0.014	<LOQ	
Fenchyl Alcohol	0.02	<LOQ		Pulegone	0.02	<LOQ	
Sabinene	0.02	<LOQ		Sabinene Hydrate	0.02	<LOQ	
Terpinolene	0.02	<LOQ		Total Terpeneol	0.02	<LOQ	
trans-Caryophyllene	0.02	<LOQ		trans-Nerolidol	0.02	<LOQ	
Gamma-Terpinene	0.02	<LOQ		Fenchone	0.02	<LOQ	
(R)-(+)-Limonene	0.02	<LOQ		3-Carene	0.02	<LOQ	
alpha-Bisabolol	0.02	<LOQ		alpha-Cedrene	0.02	<LOQ	
alpha-Humulene	0.02	<LOQ		alpha-Phellandrene	0.02	<LOQ	
alpha-Pinene	0.02	<LOQ		alpha-Terpinene	0.02	<LOQ	
Farnesene	0.02	<LOQ		beta-Myrcene	0.02	<LOQ	
beta-Pinene	0.02	<LOQ		Borneol	0.04	<LOQ	
Camphene	0.02	<LOQ		Camphors	0.04	<LOQ	
Caryophyllene oxide	0.02	<LOQ		cis-Nerolidol	0.02	<LOQ	
Eucalyptol	0.02	<LOQ		Valencene	0.02	<LOQ	

Sample Prepared By: 1161 Date: 2021-11-03 20:29:37 Sample Analyzed By: 1155 Date: 2021-11-03 17:03:08  
Batch Reviewed By: 1156 Date: 2021-11-05 09:50:18 Lab Batch #: AACD048-175 Date: 2021-11-05 09:50:18

Total Terpenes: 0.000%

Xueli Gao  
Lab Toxicologist  
Ph.D., DABT

Aixia Sun  
Lab Director/Principal Scientist  
D.H.Sc., M.Sc., B.Sc., MT (AAB)



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Production Date: 0000-00-00

Order # MED211101-010001  
Order Date: 2021-11-01  
Sample # AACD048

Sampling Date: 2021-11-02  
Lab Batch Date: 2021-11-02  
Completion Date: 2021-11-09

Initial Gross Weight: 80.590 g  
Net Weight: 30.861 g

Number of Units: 1  
Net Weight per Unit: 30861.000 mg

### Heavy Metals

Specimen Weight: 247.840 mg

**Passed**  
(ICP-MS)

Dilution Factor: 2.000

Analyte	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Arsenic (As)	100	1500	<LOQ	Cadmium (Cd)	100	500	<LOQ
Lead (Pb)	100	500	<LOQ	Mercury (Hg)	100	3000	<LOQ

Sample Prepared By: 1145 Date: 2021-11-03 20:23:17 Sample Analyzed By: 1146 Date: 2021-11-03 15:23:18  
Batch Reviewed By: 1050 Date: 2021-11-05 15:00:01 Lab Batch #: AACD048-164 Date: 2021-11-05 15:00:01



### Mycotoxins

Specimen Weight: 160.800 mg

**Passed**  
(LCMS)

Dilution Factor: 9.328

Analyte	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Aflatoxin B1	6	20	<LOQ	Aflatoxin B2	6	20	<LOQ
Aflatoxin G1	6	20	<LOQ	Aflatoxin G2	6	20	<LOQ
Ochratoxin A	12	20	<LOQ				

Sample Prepared By: 1180 Date: 2021-11-03 23:14:07 Sample Analyzed By: 1180 Date: 2021-11-03 18:14:07  
Batch Reviewed By: 1183 Date: 2021-11-06 13:43:27 Lab Batch #: AACD048-165 Date: 2021-11-06 13:43:27

Xueli Gao  
Lab Toxicologist  
Ph.D., DABT

Aixia Sun  
Lab Director/Principal Scientist  
D.H.Sc., M.Sc., B.Sc., MT (AAB)



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Batch Date: 2021-11-01  
Extracted From: CBD  
Sampling Method: MSP 7.3.1

Test Reg State: Florida

Cultivation Date: 0000-00-00  
Production Date: 0000-00-00

Order # MED211101-010001  
Order Date: 2021-11-01  
Sample # AACD048

Sampling Date: 2021-11-02  
Lab Batch Date: 2021-11-02  
Completion Date: 2021-11-09

Initial Gross Weight: 80.590 g  
Net Weight: 30.861 g

Number of Units: 1  
Net Weight per Unit: 30861.000 mg

**Pesticides FL V4** **Passed**  
(LCMS/GCMS)  
Specimen Weight: 160.800 mg

Dilution Factor: 9.328

Analyte	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Abamectin	28.23	300	<LOQ	Acephate	30	3000	<LOQ
Acequinocyl	48	2000	<LOQ	Acetamiprid	30	3000	<LOQ
Aldicarb	30	100	<LOQ	Azoxystrobin	10	3000	<LOQ
Bifenazate	30	3000	<LOQ	Bifenthrin	30	500	<LOQ
Boscalid	10	3000	<LOQ	Captan	30	3000	<LOQ
Carbaryl	10	500	<LOQ	Carbofuran	10	100	<LOQ
Chlorantraniliprole	10	3000	<LOQ	Chlordane	10	100	<LOQ
Chlorfenapyr	30	100	<LOQ	Chloromequat Chloride	10	3000	<LOQ
Chlorpyrifos	30	100	<LOQ	Clofentezine	30	500	<LOQ
Coumaphos	48	100	<LOQ	Cyfluthrin	30	1000	<LOQ
Cypermethrin	30	1000	<LOQ	Daminozide	30	100	<LOQ
Diazinon	30	200	<LOQ	Dichlorvos	30	100	<LOQ
Dimethoate	30	100	<LOQ	Dimethomorph	48	3000	<LOQ
Ethoprophos	30	100	<LOQ	Etofenprox	30	100	<LOQ
Etoxazole	30	1500	<LOQ	Fenhexamid	10	3000	<LOQ
Fenoxycarb	30	100	<LOQ	Fenpyroximate	30	2000	<LOQ
Fipronil	30	100	<LOQ	Flonicamid	30	2000	<LOQ
Fludioxonil	48	3000	<LOQ	Hexythiazox	30	2000	<LOQ
Imazalil	30	100	<LOQ	Imidacloprid	30	3000	<LOQ
Kresoxim Methyl	30	1000	<LOQ	Malathion	30	2000	<LOQ
Metaxyl	10	3000	<LOQ	Methiocarb	30	100	<LOQ
Methomyl	30	100	<LOQ	methyl-Parathion	10	100	<LOQ
Mevinphos	10	100	<LOQ	Myclobutanil	30	3000	<LOQ
Naled	30	500	<LOQ	Oxamyl	30	500	<LOQ
Paclobutrazol	30	100	<LOQ	Pentachloronitrobenzene	10	200	<LOQ
Permethrin	30	1000	<LOQ	Phosmet	30	200	<LOQ
Piperonylbutoxide	30	3000	<LOQ	Prallethrin	30	400	<LOQ
Propiconazole	30	1000	<LOQ	Propoxur	30	100	<LOQ
Pyrethrins	30	1000	<LOQ	Pyridaben	30	3000	<LOQ
Spinetoram	10	3000	<LOQ	Spinosad	30	3000	<LOQ
Spiromesifen	30	3000	<LOQ	Spirotetramat	30	3000	<LOQ
Spiroxamine	30	100	<LOQ	Tebuconazole	30	1000	<LOQ
Thiacloprid	30	100	<LOQ	Thiamethoxam	30	1000	<LOQ
Trifloxystrobin	30	3000	<LOQ				

Sample Prepared By: 1180 Date: 2021-11-03 23:14:07 Sample Analyzed By: 1180 Date: 2021-11-03 18:14:07  
Batch Reviewed By: 1183 Date: 2021-11-06 13:43:27 Lab Batch #: AACD048-202 Date: 2021-11-06 13:43:27

Xueli Gao  
Ph.D., DABT  
Lab Toxicologist

Aixa Sun  
D.H.Sc., M.Sc., B.Sc., MT (AAB)  
Lab Director/Principal Scientist



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Sample # AACD048

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Lab Batch Date: 2021-11-02  
Completion Date: 2021-11-09

Initial Gross Weight: 80.590 g  
Net Weight: 30.861 g

Number of Units: 1  
Net Weight per Unit: 30861.000 mg



### Residual Solvents - FL (CBD)

Specimen Weight: 12.400 mg

**Passed**  
(GCMS)

Dilution Factor: 1.000

Analyte	LOQ (ppm)	Action Level (ppm)	Result (ppm)	Analyte	LOQ (ppm)	Action Level (ppm)	Result (ppm)
1,1-Dichloroethane	0.16	8	<LOQ	1,2-Dichloroethane	0.04	5	<LOQ
Acetone	2.08	5000	<LOQ	Acetonitrile	1.17	410	<LOQ
Benzene	0.02	2	<LOQ	Butanes	2.5	2000	<LOQ
Chloroform	0.04	60	<LOQ	Ethanol	2.78	5000	<LOQ
Ethyl Acetate	1.11	5000	<LOQ	Ethyl Ether	1.39	5000	<LOQ
Ethylene Oxide	0.1	5	<LOQ	Heptane	1.39	5000	<LOQ
Hexane	1.17	290	<LOQ	Isopropyl alcohol	1.39	500	<LOQ
Methanol	0.69	3000	<LOQ	Methylene chloride	2.43	600	<LOQ
Pentane	2.08	5000	<LOQ	Propane	5.83	2100	<LOQ
Toluene	2.92	890	<LOQ	Total Xylenes	2.92	2170	<LOQ
Trichloroethylene	0.49	80	<LOQ				

Sample Prepared By: 1051 Date: 2021-11-03 16:51:19 Sample Analyzed By: 1051 Date: 2021-11-03 16:00:47  
Batch Reviewed By: 1153 Date: 2021-11-09 09:50:45 Lab Batch #: AACD048-183 Date: 2021-11-09 09:50:45

Xueli Gao  
Ph.D., DABT  
Lab Toxicologist

Aixa Sun  
D.H.Sc., M.Sc., B.Sc., MT (AAB)  
Lab Director/Principal Scientist



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Net Weight: 30.861 g

Number of Units: 1  
Net Weight per Unit: 30861.000 mg



### Pathogenic Microbiology SAE (MicroArray)

Specimen Weight: 1012.400 mg

**Passed**  
(Micro Array)

Dilution Factor: 1.000

Analyte	Result (cfu/g)	Analyte	Result (cfu/g)
Aspergillus flavus	Absence in 1g	Aspergillus fumigatus	Absence in 1g
Aspergillus niger	Absence in 1g	Aspergillus terreus	Absence in 1g
Salmonella	Absence in 1g	STEC E. Coli	Absence in 1g

Sample Prepared By: 1179 Date: 2021-11-03 22:20:39 Sample Analyzed By: 1179 Date: 2021-11-03 17:20:39

Batch Reviewed By: 1179 Date: 2021-11-04 18:14:30 Lab Batch #: AACD048-13 Date: 2021-11-04 18:14:30



### Listeria Monocytogenes

Specimen Weight: 974.700 mg

**Passed**  
(qPCR)

Dilution Factor: 1.000

Analyte	Action Level (cfu/g)	Result
Listeria Monocytogenes	1	Absence in 1g

Sample Prepared By: 1142 Date: 2021-11-04 15:51:50 Sample Analyzed By: 1142 Date: 2021-11-04 10:51:50

Batch Reviewed By: 1142 Date: 2021-11-05 11:07:10 Lab Batch #: AACD048-186 Date: 2021-11-05 11:07:10

Xueli Gao  
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Lab Toxicologist

Aixa Sun  
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Lab Director/Principal Scientist



Definitions and Abbreviations used in this report: \*Total CBD = CBD + (CBD-A \* 0.877), \*Total CBDV = CBDV + (CBDVA \* 0.87), \*Total THC = THCA-A \* 0.877 + Delta 9 THC, \*Total THCV = THCV + (THCVA \* 0.87), \*CBG Total = (CBGA \* 0.877) + CBG, \*CBN Total = (CBNA \* 0.877) + CBN, \*Total CBC = CBC + (CBCA \* 0.877), \*Other Cannabinoids Total = Total Cannabinoids - All the listed cannabinoids on the summary section, \*Total Detected Cannabinoids = Delta8-THC + Total CBN + CBT + Delta8-THCV + Total CBG + Total CBD + Total THCV + CBL + Total THC + Total CBC + Total CBDV + Delta10-THC, \*Total THC-O-Acetate = Delta 8 THC-O-Acetate + THC-O-Acetate, \*Analyte Details above show the Dry Weight Concentrations unless specified as 12% moisture concentration. (mg/ml) = Milligrams per Milliliter, LOQ = Limit of Quantitation, LOD = Limit of Detection, Dilution = Dilution Factor (ppb) = Parts per Billion, (%) = Percent, (cfu/g) = Colony Forming Unit per Gram (cfu/g) = Colony Forming Unit per Gram, LOD = Limit of Detection, (µg/g) = Microgram per Gram (ppm) = Parts per Million, (ppm) = (µg/g), (aw) = aw (area ratio) = Area Ratio, (mg/Kg) = Milligram per Kilogram

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