

CERTIFICATE OF ANALYSIS

ISO/IEC 17025:2017 ACCREDITATION #103104



Order #: 85416
 Order Name: Medterra 2000mg
 Broad Spectrum Unflavored
 Tincture 30ml 210920
 Batch#: 210920
 Received: 10/04/2021
 Completed: 10/08/2021

Medterra CBD, LLC
 9801 Research Drive
 Irvine CA, 92618
 (800) 971-1288
 support@medterracbd.com



Sample



<p>N/D D9-THC</p>	<p>7.348% Total CBD</p>
<p>2,184.3 mg Cannabinoids per unit</p>	<p>2,083.1 mg CBD per unit</p>

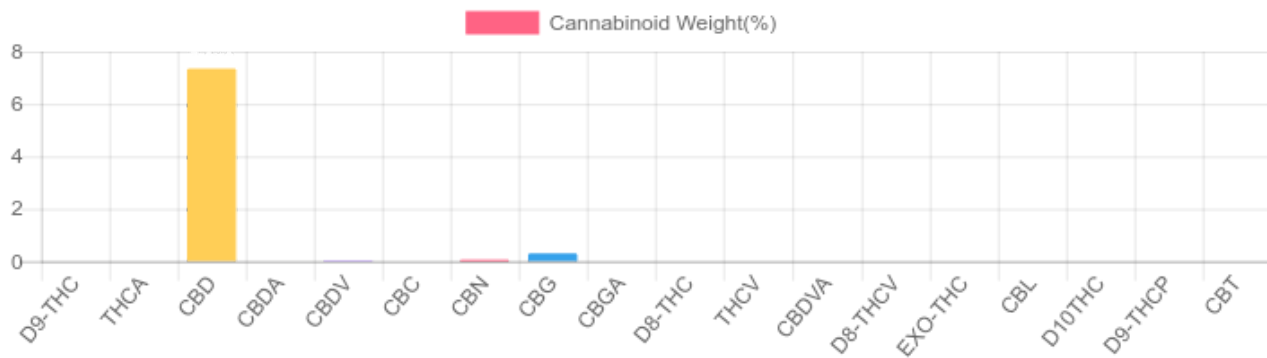
1 unit = 30 ml per unit x density (0.945) x Cannabinoid concentration

Cannabinoids Test

HPLC-DAD
 GSL SOP 400

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Cannabinoids	LOQ(mg/g)	weight(%)	mg/g	mg/unit
D9-THC	0.1954	N/D	N/D	N/D
THCA	0.1954	N/D	N/D	N/D
CBD	0.1954	7.348%	73.479	2,083.130
CBDA	0.1954	N/D	N/D	N/D
CBDV	0.1954	B/LOQ	B/LOQ	B/LOQ
CBC	0.1954	N/D	N/D	N/D
CBN	0.1954	0.062%	0.619	17.549
CBG	0.1954	0.295%	2.950	83.633
CBGA	0.1954	N/D	N/D	N/D
D8-THC	0.1954	N/D	N/D	N/D
THCV	0.1954	N/D	N/D	N/D
CBDVA	0.1954	N/D	N/D	N/D
D8-THCV	0.1954	N/D	N/D	N/D
EXO-THC	0.1954	N/D	N/D	N/D
CBL	0.1954	N/D	N/D	N/D
D10THC	0.1954	N/D	N/D	N/D
D9-THCP	0.1954	N/D	N/D	N/D
CBT	0.1954	N/D	N/D	N/D
TOTAL D9-THC		N/D	N/D	N/D
TOTAL CBD*		7.348%	73.479	2,083.1
TOTAL CANNABINOIDS		7.705%	77.048	2,184.3



*Total CBD = CBD + CBDA x 0.877
 N/D - Not Detected, B/LOQ - Below Limit of Quantification

Ben Witten, MS, MT., Lab Director

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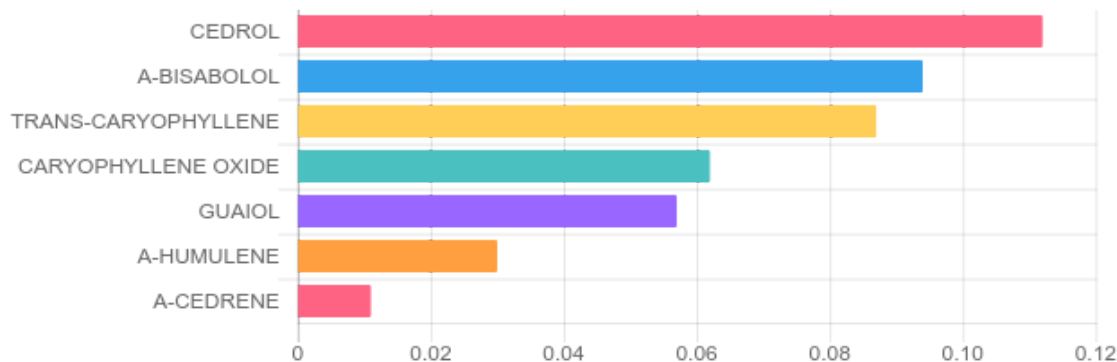
TERPENES: TOTAL (0.453%)

GSL SOP 404
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GC-FID

Terpene	Results (%)	LOQ (%)	LOD (%)	Terpene	Results (%)	LOQ (%)	LOD (%)
3-CARENE	N/D	0.003%	0.001%	GERANIOL	N/D	0.003%	0.001%
A-BISABOLOL	0.094%	0.003%	0.001%	GERANYL ACETATE	N/D	0.003%	0.001%
A-CEDRENE	0.011%	0.003%	0.001%	GUAJOL	0.057%	0.003%	0.001%
A-HUMULENE	0.030%	0.003%	0.001%	HEXAHYDROTHYMOL	N/D	0.003%	0.001%
A-PINENE	N/D	0.003%	0.001%	ISOBORNEOL	N/D	0.003%	0.001%
A-TERPINENE	N/D	0.003%	0.001%	ISOPULEGOL	N/D	0.003%	0.001%
B-MYRCENE	N/D	0.003%	0.001%	LIMONENE	N/D	0.003%	0.001%
B-PINENE	N/D	0.003%	0.001%	LINALOOL	N/D	0.003%	0.001%
BORNEOL (MIX OF ISOMERS)	N/D	0.003%	0.001%	NEROL	N/D	0.003%	0.001%
CAMPHENE	N/D	0.003%	0.001%	P-MENTHA-1, 5-DIENE	N/D	0.003%	0.001%
CAMPHOR (MIX OF ISOMERS)	N/D	0.003%	0.001%	PULEGONE (+)	N/D	0.003%	0.001%
CARYOPHYLLENE OXIDE	0.062%	0.003%	0.001%	SABINENE HYDRATE	N/D	0.003%	0.001%
CEDROL	0.112%	0.003%	0.001%	TERPINEOL (MIX OF ISOMERS)	N/D	0.003%	0.001%
CIS-NEROLIDOL	N/D	0.003%	0.001%	TERPINOLENE	N/D	0.003%	0.001%
CIS-OCIMENE	N/D	0.003%	0.001%	TRANS-CARYOPHYLLENE	0.087%	0.003%	0.001%
ENDO-FENCHYL ALCOHOL	N/D	0.003%	0.001%	TRANS-NEROLIDOL	N/D	0.003%	0.001%
EUCALYPTOL	N/D	0.003%	0.001%	TRANS-OCIMENE	N/D	0.003%	0.001%
FENCHONE (MIX OF ISOMERS)	N/D	0.003%	0.001%	VALENCENE	N/D	0.003%	0.001%
GAMMA-TERPINENE	N/D	0.003%	0.001%				

Top Terpenes Results:



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PESTICIDE ANALYSIS:

GSL SOP 401

PREPARED: 10/07/2021 15:22:45

UPLOADED: 10/08/2021 11:05:11

GC-MS/MS

Pesticide	Action Level (ppm)	Results (ppm)	LOQ (ppm)	LOD (ppm)
CAPTAN	0.700	N/D	0.100	0.010
CHLORDANE	0.100	N/D	0.100	0.010
CHLORFENAPYR	0.100	N/D	0.100	0.010
COUMAPHOS	0.100	N/D	0.100	0.010

Pesticide	Action Level (ppm)	Results (ppm)	LOQ (ppm)	LOD (ppm)
CYFLUTHRIN	2.000	N/D	0.100	0.010
CYPERMETHRIN	1.000	N/D	0.100	0.010
PARATHION-METHYL	0.100	N/D	0.100	0.010
PENTACHLORONITROBENZENE	0.100	N/D	0.100	0.010

LC-MS/MS

Pesticide	Action Level (ppm)	Results (ppm)	LOQ (ppm)	LOD (ppm)
ABAMECTIN B1A	0.100	N/D	0.005	0.005
ACEPHATE	0.100	N/D	0.005	0.001
ACEQUINOCYL	0.100	N/D	0.005	0.005
ACETAMIPRID	0.100	N/D	0.005	0.005
ALDICARB	0.100	N/D	0.005	0.005
AZOXYSTROBIN	0.100	N/D	0.005	0.001
BIFENAZATE	0.100	N/D	0.005	0.001
BIFENTHRIN	3.000	N/D	0.005	0.005
BOSCALID	0.100	N/D	0.005	0.005
CARBARYL	0.500	N/D	0.005	0.001
CARBOFURAN	0.100	N/D	0.005	0.001
CHLORANTRANILIPROLE	10.000	N/D	0.005	0.005
CHLORPYRIFOS	0.100	0.007	0.005	0.005
CLOFENTEZINE	0.100	N/D	0.005	0.005
DAMINOZIDE	0.100	N/D	0.005	0.001
DIAZINON	0.100	N/D	0.005	0.005
DICHLORVOS	0.100	N/D	0.005	0.001
DIMETHOATE	0.100	N/D	0.005	0.001
DIMETHOMORPH	2.000	N/D	0.005	0.001
ETHOPROPHOS	0.100	B/LOQ	0.005	0.001
ETOFENPROX	0.100	N/D	0.005	0.005
ETOXAZOLE	0.100	N/D	0.050	0.005
FENHEXAMID	0.100	N/D	0.005	0.001
FENOXYCARB	0.100	N/D	0.005	0.005
FENPYROXIMATE	0.100	N/D	0.005	0.005
FIPRONIL	0.100	N/D	0.005	0.005
FLONICAMID	0.100	N/D	0.025	0.005
FLUDIOXONIL	0.100	N/D	0.005	0.005
HEXYTHIAZOX	0.100	N/D	0.005	0.005
IMAZALIL	0.100	N/D	0.005	0.001

Pesticide	Action Level (ppm)	Results (ppm)	LOQ (ppm)	LOD (ppm)
IMIDACLOPRID	5.000	N/D	0.005	0.001
KRESOXIM-METHYL	0.100	N/D	0.005	0.005
MALATHION	0.500	N/D	0.005	0.001
METALAXYL	2.000	N/D	0.005	0.001
METHIOCARB	0.100	N/D	0.005	0.001
METHOMYL	1.000	N/D	0.005	0.001
MEVINPHOS	0.100	N/D	0.005	0.001
MYCLOBUTANIL	0.100	N/D	0.005	0.005
NALED	0.100	N/D	0.005	0.001
OXAMYL	0.500	N/D	0.005	0.001
PACLOBUTRAZOL	0.100	N/D	0.005	0.005
PERMETHRINS	0.500	N/D	0.005	0.005
PHOSMET	0.100	N/D	0.005	0.001
PIPERONYL	3.000	N/D	0.005	0.005
BUTOXIDE	0.100	N/D	0.005	0.005
PRALLETHRIN	0.100	N/D	0.010	0.005
PROPICONAZOLE	0.100	N/D	0.005	0.001
PROPOXUR	0.100	N/D	0.005	0.001
PYRETHRINS	0.500	N/D	0.005	0.001
PYRIDABEN	0.100	N/D	0.005	0.005
SPINETORAM	0.100	N/D	0.005	0.005
SPINOSAD	0.100	N/D	0.005	0.005
SPIROMESIFEN	0.100	N/D	0.005	0.001
SPIROTETRAMAT	0.100	N/D	0.005	0.005
SPIROXAMINE	0.100	N/D	0.005	0.001
TEBUCONAZOLE	0.100	N/D	0.005	0.001
THIACLOPRID	0.100	N/D	0.005	0.001
THIAMETHOXAM	5.000	N/D	0.005	0.001
TRIFLOXYSTROBIN	0.100	N/D	0.005	0.005

N/D = Not Detected, A/LOQ = Above LOQ Level, B/LOQ = Below LOQ Level, B/LOD = Below LOD Level

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RESIDUAL SOLVENTS:

HS-GC-MS

GSL SOP 405

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Residual Solvent	Action Level (ppm)	Results (ppm)	LOQ (ppm)	LOD (ppm)
1,1-DICHLOROETHENE	8	N/D	0.63	0.6
1,2- DICHLOROETHANE	2	N/D	0.12	0.012
1,2-DICHLOROETHENE	5	N/D	0.73	0.09
ACETONE	5,000	N/D	140	9
ACETONITRILE	410	N/D	25	0.72
BENZENE	1	N/D	1	0.6
BUTANE	5,000	N/D	50	48
CHLOROFORM	1	N/D	1	0.5
ETHANOL	5,000	N/D	140	12
ETHYL ACETATE	5,000	N/D	140	2.4
ETHYL ETHER	5,000	N/D	140	6
ETHYLENE OXIDE	1	N/D	2	0.6
ISOPROPYL ALCOHOL	5,000	N/D	140	3
METHANOL	3,000	N/D	100	6
METHYLENE CHLORIDE	125	N/D	1.5	1.5
N-HEPTANE	5,000	N/D	140	6
N-HEXANE	290	N/D	18	0.06
PENTANE	5,000	N/D	140	9
PROPANE	5,000	N/D	30	30
TOLUENE	890	N/D	53	0.9
TRICHLOROETHENE	1	N/D	1	0.3
XYLENES	150	N/D	130	1.8

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Microbial Analysis:

Microbial Analysis GSL SOP 406

PCR - Agilent AriaMX

Uploaded: 10/06/2021 19:31:02

MICROBIAL ANALYSIS:

PCR - Agilent AriaMX

Test	SOP	Test Method	Device Used	LOD	Allowable Criteria	Actual Result	Pass/Fail
SALMONELLA*	406.01	USP 61/62†	ARIAMX PCR	1 CFU/G**	DETECT/NOT DETECTED	NOT DETECTED	PASS
STEC E. COLI*	406.01	USP 61/62†	ARIAMX PCR	1 CFU/G**	DETECT/NOT DETECTED	NOT DETECTED	PASS
ASPERGILLUS FUMIGATUS***	406.01	USP 61/62†	ARIAMX PCR	1 CFU/G**	DETECT/NOT DETECTED	NOT DETECTED	PASS
ASPERGILLUS TERREUS***	406.01	USP 61/62†	ARIAMX PCR	1 CFU/G**	DETECT/NOT DETECTED	NOT DETECTED	PASS
ASPERGILLUS FLAVUS***	406.01	USP 61/62†	ARIAMX PCR	1 CFU/G**	DETECT/NOT DETECTED	NOT DETECTED	PASS
ASPERGILLUS NIGER***	406.01	USP 61/62†	ARIAMX PCR	1 CFU/G**	DETECT/NOT DETECTED	NOT DETECTED	PASS

† USP 61 (enumeration of bacteria TAC, TYM, and ENT/Coliform), USP 62 (identifying specific species E.coli Aspergillus etc)

* STEC and Salmonella run as Multiplex

** CFU/g Calculation based on MIP/Extract matrix

*** Flavus = 2 Copies of DNA / Fumigatis = 2 Copies of DNA Niger = 20 Copies of DNA / Terrus = 10 copies of DNA

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Mycotoxin Analysis:

LC-MS/MS
GSL SOP 401

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Analyte	Action Lvl (ppb)	Results (ppb)
AFLATOXIN B1	20	N/D
AFLATOXIN B2	20	N/D
AFLATOXIN G1	20	N/D
AFLATOXIN G2	20	N/D
OCHRATOXIN A	20	N/D

LOQ is 1ppb, LOD is 1ppb

Heavy Metals Analysis:

ICP-MS
GSL SOP 403

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Metal	Action Level (ppb)	Result (ppb)
ARSENIC (AS)	2,000	N/D
CADMIUM (CD)	2,000	N/D
MERCURY (HG)	1,000	B/LOQ
LEAD (PB)	5,000	B/LOQ

Lower Limit of Quantitation (LOQ) is 75 ppb, Limit of Detection (LOD) is 3 ppb

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