

CERTIFICATE OF ANALYSIS

ISO/IEC 17025:2017 ACCREDITATION #103104



Order #: 78808
 Order Name: 500mg Full
 Spectrum Natural
 Batch#: 2107F
 Received: 06/09/2021
 Completed: 06/13/2021



Sample



N/D
D9-THC

2.057%
Total CBD

595.5 mg
Cannabinoids per unit

576.1 mg
CBD per unit

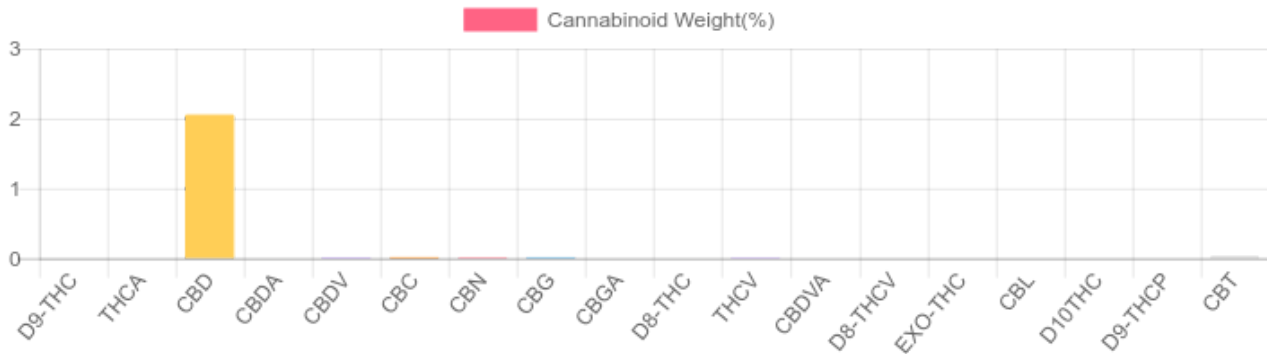
1 unit = 28 grams per unit x Cannabinoid concentration

Cannabinoids Test

SHIMADZU INTEGRATED UPLC-PDA
 GSL SOP 400

UPLOADED: 06/11/2021 11:40:17

Cannabinoids	LOQ	weight(%)	mg/g	mg/unit
D9-THC	10 PPM	N/D	N/D	N/D
THCA	10 PPM	N/D	N/D	N/D
CBD	10 PPM	2.057%	20.574	576.072
CBDA	20 PPM	N/D	N/D	N/D
CBDV	20 PPM	0.004%	0.040	1.120
CBC	10 PPM	0.014%	0.136	3.808
CBN	10 PPM	0.007%	0.070	1.960
CBG	10 PPM	0.009%	0.092	2.576
CBGA	20 PPM	N/D	N/D	N/D
D8-THC	10 PPM	N/D	N/D	N/D
THCV	10 PPM	0.002%	0.021	0.588
CBDVA	20 PPM	N/D	N/D	N/D
D8-THCV	20 PPM	N/D	N/D	N/D
EXO-THC	20 PPM	N/D	N/D	N/D
CBL	20 PPM	N/D	N/D	N/D
D10THC	20 PPM	N/D	N/D	N/D
D9-THCP	20 PPM	N/D	N/D	N/D
CBT	20 PPM	0.034%	0.336	9.408
TOTAL D9-THC		N/D	N/D	N/D
TOTAL CBD*		2.057%	20.574	576.1
TOTAL CANNABINOIDS		2.127%	21.269	595.5



Reporting Limit 10 ppm
 *Total CBD = CBD + CBDA x 0.877
 N/D - Not Detected, B/LOQ - Below Limit of Quantification

Dr. Andrew Hall, Ph.D., Chief Scientific Officer

Ben Witten, MS, MT., Lab Director

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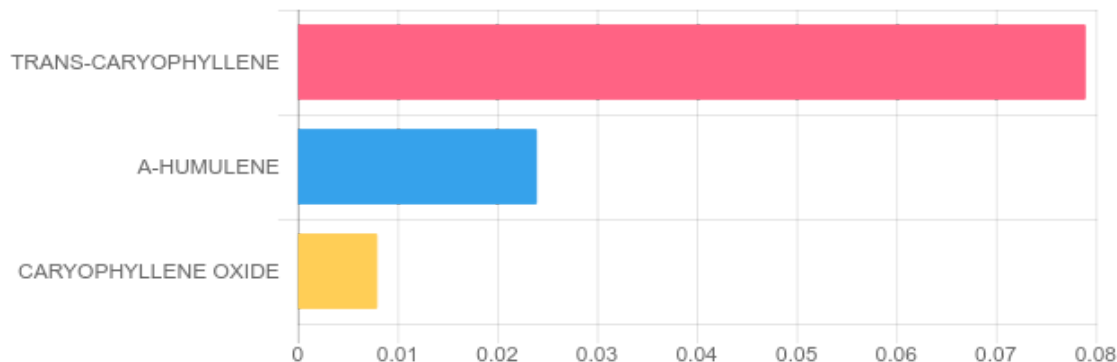
TERPENES: TOTAL (0.114%)

GSL SOP 404
 Uploaded: 06/11/2021 14:17:50

Headspace GCMS - Shimadzu GCMS QP2020 with HS20

Terpene	Results (%)	LOQ (%)	LOD (%)	Terpene	Results (%)	LOQ (%)	LOD (%)
3-CARENE	B/LOQ	0.003%	0.001%	GERANIOL	B/LOQ	0.003%	0.001%
A-BISABOLOL	B/LOQ	0.003%	0.001%	GERANYL ACETATE	B/LOQ	0.003%	0.001%
A-CEDRENE	B/LOQ	0.003%	0.001%	GUAJOL	B/LOQ	0.003%	0.001%
A-HUMULENE	0.024%	0.003%	0.001%	HEXAHYDROTHYMOL	B/LOQ	0.003%	0.001%
A-PINENE	B/LOQ	0.003%	0.001%	ISOBORNEOL	B/LOQ	0.003%	0.001%
A-TERPINENE	B/LOQ	0.003%	0.001%	ISOPULEGOL	B/LOQ	0.003%	0.001%
B-MYRCENE	B/LOQ	0.003%	0.001%	LIMONENE	B/LOQ	0.003%	0.001%
B-PINENE	B/LOQ	0.003%	0.001%	LINALOOL	B/LOQ	0.003%	0.001%
BORNEOL (MIX OF ISOMERS)	B/LOQ	0.003%	0.001%	NEROL	B/LOQ	0.003%	0.001%
CAMPHENE	B/LOQ	0.003%	0.001%	P-MENTHA-1, 5-DIENE	B/LOQ	0.003%	0.001%
CAMPHOR (MIX OF ISOMERS)	B/LOQ	0.003%	0.001%	PULEGONE (+)	B/LOQ	0.003%	0.001%
CARYOPHYLLENE OXIDE	0.008%	0.003%	0.001%	SABINENE HYDRATE	B/LOQ	0.003%	0.001%
CEDROL	B/LOQ	0.003%	0.001%	TERPINEOL (MIX OF ISOMERS)	B/LOQ	0.003%	0.001%
CIS-NEROLIDOL	B/LOQ	0.003%	0.001%	TERPINOLENE	B/LOQ	0.003%	0.001%
CIS-OCIMENE	B/LOQ	0.003%	0.001%	TRANS-CARYOPHYLLENE	0.079%	0.003%	0.001%
ENDO-FENCHYL ALCOHOL	B/LOQ	0.003%	0.001%	TRANS-NEROLIDOL	B/LOQ	0.003%	0.001%
EUCALYPTOL	B/LOQ	0.003%	0.001%	TRANS-OCIMENE	B/LOQ	0.003%	0.001%
FENCHONE (MIX OF ISOMERS)	B/LOQ	0.003%	0.001%	VALENCENE	B/LOQ	0.003%	0.001%
GAMMA-TERPINENE	B/LOQ	0.003%	0.001%				

Top Terpenes Results:



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PESTICIDE ANALYSIS:

GSL SOP 401

PREPARED: 06/10/2021 18:23:51

UPLOADED: 06/11/2021 19:45:37

GCMS-MS - Shimadzu GCMS-TQ8040

Pesticide	Action Level (ppm)	Results (ppm)	LOQ (ppm)	LOD (ppm)
CAPTAN	3.000	N/D	0.003	0.001
CHLORDANE	0.100	N/D	0.003	0.001
CHLORFENAPYR	0.100	N/D	0.003	0.001
COUMAPHOS	0.100	N/D	0.003	0.001


Pesticide	Action Level (ppm)	Results (ppm)	LOQ (ppm)	LOD (ppm)
CYFLUTHRIN	1.000	N/D	0.003	0.001
CYPERMETHRIN	1.000	N/D	0.003	0.001
PENTACHLORONITROBENZENE	0.200	N/D	0.003	0.001

LCMS-MS - Shimadzu LCMS-8060

Pesticide	Action Level (ppm)	Results (ppm)	LOQ (ppm)	LOD (ppm)
ABAMECTIN B1A	0.300	N/D	0.005	0.001
ACEPHATE	3.000	N/D	0.001	0.001
ACEQUINOCYL	2.000	N/D	0.001	0.001
ACETAMIPRID	3.000	N/D	0.005	0.001
ALDICARB	0.100	N/D	0.005	0.001
AZOXYSTROBIN	3.000	N/D	0.001	0.001
BIFENAZATE	3.000	N/D	0.005	0.001
BIFENTHRIN	0.500	N/D	0.005	0.001
BOSCALID	3.000	N/D	0.005	0.001
CARBARYL	0.500	N/D	0.003	0.001
CARBOFURAN	0.100	N/D	0.001	0.001
CHLORANTRANILIPROLE	3.000	N/D	0.005	0.005
CHLORMEQUAT CHLORIDE	3.000	N/D	0.025	0.025
CHLORPYRIFOS	0.100	N/D	0.001	0.001
CLOFENTEZINE	0.500	N/D	0.001	0.001
DAMINOZIDE	0.100	N/D	0.005	0.001
DIAZINON	0.200	N/D	0.001	0.001
DICHLORVOS	0.100	N/D	0.005	0.001
DIMETHOATE	0.100	N/D	0.001	0.001
DIMETHOMORPH	3.000	N/D	0.005	0.001
ETHOPROPHOS	0.100	N/D	0.001	0.001
ETOFENPROX	0.100	N/D	0.001	0.001
ETOXAZOLE	1.500	N/D	0.010	0.005
FENHEXAMID	3.000	N/D	0.005	0.001
FENOXYCARB	0.100	N/D	0.005	0.001
FENPYROXIMATE	2.000	N/D	0.001	0.001
FIPRONIL	0.100	N/D	0.003	0.001
FLONICAMID	2.000	N/D	0.025	0.010
FLUDIOXONIL	3.000	N/D	0.003	0.001
HEXYTHIAZOX	2.000	N/D	0.005	0.001

Pesticide	Action Level (ppm)	Results (ppm)	LOQ (ppm)	LOD (ppm)
IMAZALIL	0.100	N/D	0.005	0.001
IMIDACLOPRID	3.000	N/D	0.005	0.001
KRESOXIM-METHYL	1.000	N/D	0.010	0.005
MALATHION	2.000	N/D	0.005	0.001
METALAXYL	3.000	N/D	0.001	0.001
METHIOCARB	0.100	N/D	0.005	0.001
METHOMYL	0.100	N/D	0.001	0.001
MEVINPHOS	0.100	N/D	0.001	0.001
MYCLOBUTANIL	3.000	N/D	0.005	0.001
NALED	0.500	N/D	0.005	0.001
OXAMYL	0.500	N/D	0.001	0.001
PACLOBUTRAZOL	0.100	N/D	0.005	0.001
PERMETHRINS	1.000	N/D	0.005	0.001
PHOSMET	0.200	N/D	0.005	0.001
PIPERONYL BUTOXIDE	3.000	N/D	0.001	0.001
PRALLETHRIN	0.400	N/D	0.005	0.005
PROPICONAZOLE	1.000	N/D	0.010	0.005
PROPOXUR	0.100	N/D	0.001	0.001
PYRETHRINS (PYRETHRIN I)	1.000	N/D	0.005	0.005
PYRIDABEN	3.000	N/D	0.005	0.001
SPINETORAM	3.000	N/D	0.001	0.001
SPINOSAD	3.000	N/D	0.001	0.001
SPIROMESIFEN	3.000	N/D	0.005	0.001
SPIROTETRAMAT	3.000	N/D	0.001	0.001
SPIROXAMINE	0.100	N/D	0.001	0.001
TEBUCONAZOLE	1.000	N/D	0.005	0.001
THIACLOPRID	0.100	N/D	0.001	0.001
THIAMETHOXAM	1.000	N/D	0.001	0.001
TRIFLOXYSTROBIN	3.000	N/D	0.001	0.001

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:

Headspace GCMS - Shimadzu GCMS QP2020 with HS20

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	0.63
1,2- DICHLOROETHANE	2	N/D	0.12	0.02
ACETONE	5,000	N/D	140	20
ACETONITRILE	410	N/D	25	1
BENZENE	1	N/D	1	0.5
BUTANE	5,000	N/D	50	10
CHLOROFORM	1	N/D	1	0.5
CIS 1,2-DICHLOROETHENE	5	N/D	0.73	0.18
ETHANOL	5,000	N/D	140	20
ETHYL ACETATE	5,000	N/D	140	20
ETHYL ETHER	5,000	N/D	140	20
ETHYLENE OXIDE	1	N/D	0	0
ISOPROPYL ALCOHOL	5,000	N/D	140	20
METHANOL	3,000	N/D	100	20
METHYLENE CHLORIDE	125	N/D	0.15	0.15
N-HEPTANE	5,000	N/D	140	20
N-HEXANE	290	N/D	18	10
PENTANE	5,000	N/D	140	20
PROPANE	5,000	N/D	20	1
TOLUENE	890	N/D	53	1
TRANS 1,2-DICHLOROETHENE	5	N/D	0.73	0.18
TRICHLOROETHENE	1	N/D	1	0.5
XYLENES	150	N/D	130	20

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Microbial Analysis:

Microbial Analysis GSL SOP 406

PCR - Agilent AriaMX

Uploaded: 06/12/2021 20:08:32

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MICROBIAL ANALYSIS:

PCR - Agilent AriaMX

Test	SOP	Test Method	Device Used	LOD	Allowable Criteria	Actual Result	Pass/Fail
TOTAL YEAST AND MOLD	406.01	USP 61/62†	ARIAMX PCR	CFU/G BY SAMPLE TYPE**	1,000 CFU/G	NOT DETECTED	PASS
LISTERIA MONOCYTOGENES	406.01		ARIAMX PCR	2 COPIES OF DNA	PRESENCE/ABSENT	NOT DETECTED	PASS
STEC E. COLI*	406.01	USP 61/62†	ARIAMX PCR	1 CFU/G**	DETECT/NOT DETECTED	NOT DETECTED	PASS
PATHOGENIC E. COLI	406.01	USP 61/62†	ARIAMX PCR	1 CFU/G**	DETECT/NOT DETECTED	NOT DETECTED	PASS
SALMONELLA*	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 - Shimadzu LCMS-8060
GSL SOP 401

Uploaded: 06/11/2021 10:29:56

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

Moisture Analysis:

Shimadzu MOC63U Moisture Balance - GSL SOP 411

Uploaded: 06/10/2021 14:32:31

Moisture %

2.56%

Heavy Metals Analysis:

ICP-MS - Shimadzu ICPMS-2030
GSL SOP 403

Uploaded: 06/10/2021 21:17:52

Metal	Action Level (ppb)	Result (ppb)
ARSENIC (AS)	200	B/LOQ
CADMIUM (CD)	200	B/LOQ
MERCURY (HG)	100	B/LOQ
LEAD (PB)	500	B/LOQ

Lower Limit of Quantitation (LOQ) is 75 ppb

Water Activity:

HD-3A Water Activity Meter - GSL SOP 407

Uploaded: 06/10/2021 14:32:33

Water

0.58

Filth and Foreign Materials Analysis:

Microscope - Amscope Simul-Focal Trinocular Stereo Zoom Microscope - GSL SOP 409

Uploaded: 06/10/2021 20:07:35

Pass: No Foreign Materials Detected

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