

Order #: 59722 Order Name: LLTDR-BS-1000-

082020 Batch#: 2

Received: 08/13/2020 Completed: 08/31/2020 Leafwell Botanicals, Inc. 2535 Copper Ridge Dr. Unit B Steamboat Springs Colorado, 80487 (954) 822-4818 abe@leafwellbotanicals.com



Sample



N/D D9-THC 3.664% Total CBD

1,183.0 mg Cannabinoids per unit

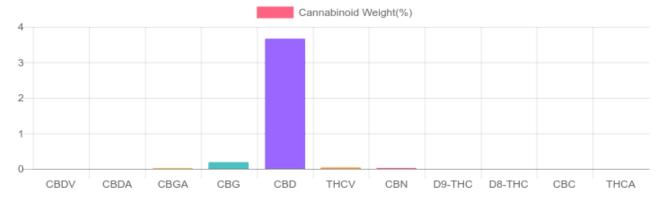
1,099.2 mg CBD per unit

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

Cannabinoids Test

SHIMADZU INTEGRATED UPLC-PDA

GSL SOP 400 PREPARED: 08/14/2020 14:36:56 UPLOADED: 08/17/2020 11:37:13 weight(%) Cannabinoids LOQ mg/unit mg/g D9-THC 10 PPM N/D N/D N/D THCA 10 PPM N/D N/D N/D CBD 10 PPM 3.664% 36.641 1,099.2 **CBDA** 20 PPM N/D N/D N/D CBDV 20 PPM N/D N/D N/D CBC 10 PPM N/D N/D N/D CBN 10 PPM 0.026% 0.262 7.9 CBG 10 PPM 0.189% 1.887 56.6 **CBGA** 20 PPM 0.024% 0.239 7.2 D8-THC 10 PPM N/D N/D N/D THCV 10 PPM 0.040% 0.404 12.1 TOTAL D9-THC N/D N/D N/D TOTAL CBD* 3.664% 36.641 1,099.2 TOTAL CANNABINOIDS 3.943% 39.433 1,183.0



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

______info@greenscientificlabs.com IS. MT. Lab Director 1-833 TEST CBD

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TERPENES: TOTAL (1.367%)

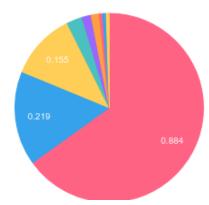
Headspace GCMS - Shimadzu GCMS QP2020 with HS20

Terpene	Results (%)	LOQ (%)	LOD (%)
3-CARENE	B/LOQ	0.0067%	0.0063%
ALPHA-PINENE	0.037%	0.0067%	0.0063%
ALPHA-TERPINENE	B/LOQ	0.0067%	0.0063%
BETA-PINENE	0.219%	0.0067%	0.0063%
CAMPHENE	B/LOQ	0.0067%	0.0063%
CARYOPHYLLENE	0.008%	0.0067%	0.0063%
EUCALYPTOL	B/LOQ	0.0067%	0.0063%
GAMMATERPINENE	0.155%	0.0067%	0.0016%
LIMONENE	0.884%	0.0067%	0.0063%
LINALOOL	0.007%	0.0067%	0.0063%
P-CYMENE	0.021%	0.0067%	0.0063%
TERPINOLENE	0.019%	0.0067%	0.0063%
TRANS-BETA-OCIMENE	0.008%	0.0067%	0.0031%

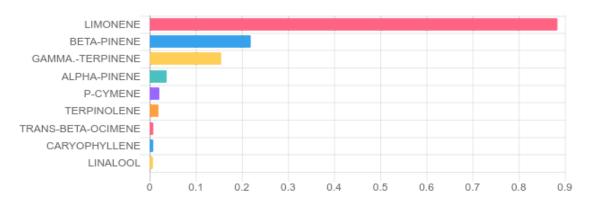
GSL SOP 404

Prepared: 08/13/2020 21:42:00 Uploaded: 08/17/2020 15:00:25

Terpenes Breakdown



Top Terpenes Results:



Tested for but not present:

BETA-MYRCENE, CIS-BETA-OCIMENE, ISOPULEGOL, GERANIOL, HUMULENE, CIS-NEROLIDOL, TRANS-NEROLIDOL, GUAIOL, CARYOPHYLLENE OXIDE, ALPHA-BISABOLOL

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PESTICIDE ANALYSIS:

GSL SOP 401 PREPARED: 08/14/2020 17:01:20 UPLOADED: 08/18/2020 17:49:44

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	Results	LOQ	LOD
resticide	(ppm)	(ppm)	(ppm)	(ppm)
CYFLUTHRIN	1.000	N/D	0.003	0.001
CYPERMETHRIN	1.000	N/D	0.003	0.001
PENTACHLORONITROBENZEN	0.200	N/D	0.003	0.001

LCMS-MS - Shimadzu LCMS-8060

Pesticide	Action Level (ppm)	Results (ppm)	LOQ (ppm)	LOD (ppm)	Pesticide	Action Level (ppm)	Results (ppm)	LOQ (ppm)	LOD (ppm)
ABAMECTIN B1A	0.300	N/D	0.005	0.001	IMAZALIL	0.100	N/D	0.005	0.001
ACEPHATE	3.000	N/D	0.001	0.001	IMIDACLOPRID	3.000	N/D	0.005	0.001
ACEQUINOCYL	2.000	N/D	0.001	0.001	KRESOXIM-METHYL	1.000	N/D	0.010	0.005
ACETAMIPRID	3.000	N/D	0.005	0.001	MALATHION	2.000	N/D	0.005	0.001
ALDICARB	0.100	N/D	0.005	0.001	METALAXYL	3.000	N/D	0.001	0.001
AZOXYSTROBIN	3.000	N/D	0.001	0.001	METHIOCARB	0.100	N/D	0.005	0.001
BIFENAZATE	3.000	N/D	0.005	0.001	METHOMYL	0.100	N/D	0.001	0.001
BIFENTHRIN	0.500	N/D	0.005	0.001	MEVINPHOS	0.100	N/D	0.001	0.001
BOSCALID	3.000	N/D	0.005	0.001	MYCLOBUTANIL	3.000	N/D	0.005	0.001
CARBARYL	0.500	N/D	0.003	0.001	NALED	0.500	N/D	0.005	0.001
CARBOFURAN	0.100	N/D	0.001	0.001	OXAMYL	0.500	N/D	0.001	0.001
CHLORANTRANILIPROLE	3.000	N/D	0.005	0.005	PACLOBUTRAZOL	0.100	N/D	0.005	0.001
CHLORMEQUAT	2.000	N/D	0.005	0.025	PERMETHRINS	1.000	N/D	0.005	0.001
CHLORIDE	3.000	N/D	0.025	0.025	PHOSMET	0.200	N/D	0.005	0.001
CHLORPYRIFOS	0.100	N/D	0.001	0.001	PIPERONYL	3.000	N/D	0.001	0.001
CLOFENTEZINE	0.500	N/D	0.001	0.001	BUTOXIDE	3.000	IN/D	0.001	0.001
DAMINOZIDE	0.100	N/D	0.005	0.001	PRALLETHRIN	0.400	N/D	0.005	0.005
DIAZINON	0.200	N/D	0.001	0.001	PROPICONAZOLE	1.000	N/D	0.010	0.005
DICHLORVOS	0.100	N/D	0.005	0.001	PROPOXUR	0.100	N/D	0.001	0.001
DIMETHOATE	0.100	N/D	0.001	0.001	PYRETHRINS	1.000	N/D	0.005	0.005
DIMETHOMORPH	3.000	N/D	0.005	0.001	(PYRETHRIN I)	1.000	N/D	0.005	0.005
ETHOPROPHOS	0.100	N/D	0.001	0.001	PYRIDABEN	3.000	N/D	0.005	0.001
ETOFENPROX	0.100	N/D	0.001	0.001	SPINETORAM	3.000	N/D	0.001	0.001
ETOXAZOLE	1.500	N/D	0.010	0.005	SPINOSAD	3.000	N/D	0.001	0.001
FENHEXAMID	3.000	N/D	0.005	0.001	SPIROMESIFEN	3.000	N/D	0.005	0.001
FENOXYCARB	0.100	N/D	0.005	0.001	SPIROTETRAMAT	3.000	N/D	0.001	0.001
FENPYROXIMATE	2.000	N/D	0.001	0.001	SPIROXAMINE	0.100	N/D	0.001	0.001
FIPRONIL	0.100	N/D	0.003	0.001	TEBUCONAZOLE	1.000	N/D	0.005	0.001
FLONICAMID	2.000	N/D	0.025	0.010	THIACLOPRID	0.100	N/D	0.001	0.001
FLUDIOXONIL	3.000	N/D	0.003	0.001	THIAMETHOXAM	1.000	N/D	0.001	0.001
HEXYTHIAZOX	2.000	N/D	0.005	0.001	TRIFLOXYSTROBIN	3.000	N/D	0.001	0.001

 $\label{eq:ndecomposition} N/D = Not \ Detected, \ A/LOQ = Above \ LOQ \ Level, \ B/LOQ = Below \ LOQ \ Level, \ B/LOD = Below \ LOD \ Level \ LOD \$

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Ben Witten, MS, MT., Lab Director

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Completed: 08/31/2020

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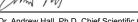
RESIDUAL SOLVENTS:

Headspace GCMS - Shimadzu GCMS QP2020 with HS20

GSL SOP 405

Prepared: 08/17/2020 14:09:21 Uploaded: 08/18/2020 09:04:09

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

Uploaded: 08/31/2020 16:48:57 PCR - Agilent AriaMX

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**	10,000 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)

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^{*} 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: 08/18/2020 17:49:43

Action LvI (ppb)	Results (ppb)
20	N/D
	20 20 20 20

LOQ is 1ppb, LOD is 1ppb

Moisture Analysis:

Shimadzu MOC63U Moisture Balance - GSL SOP 411

Uploaded: 08/13/2020 21:47:26

Moisture %

2.2%

Heavy Metals Analysis:

ICP-MS - Shimadzu ICPMS-2030

GSL SOP 403

Uploaded: 08/15/2020 03:09:48

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: 08/13/2020 21:55:42

Water

0.51

Filth and Foreign Materials Analysis:

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

Uploaded: 08/14/2020 09:32:42

Pass: No Foreign Materials Detected

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