

CERTIFICATE OF ANALYSIS



Order #: 34485
 Order Name: Full Spectrum
 5000 Peppermint
 Batch#: 1905H
 Received: 08/07/2019
 Completed: 08/12/2019



Sample



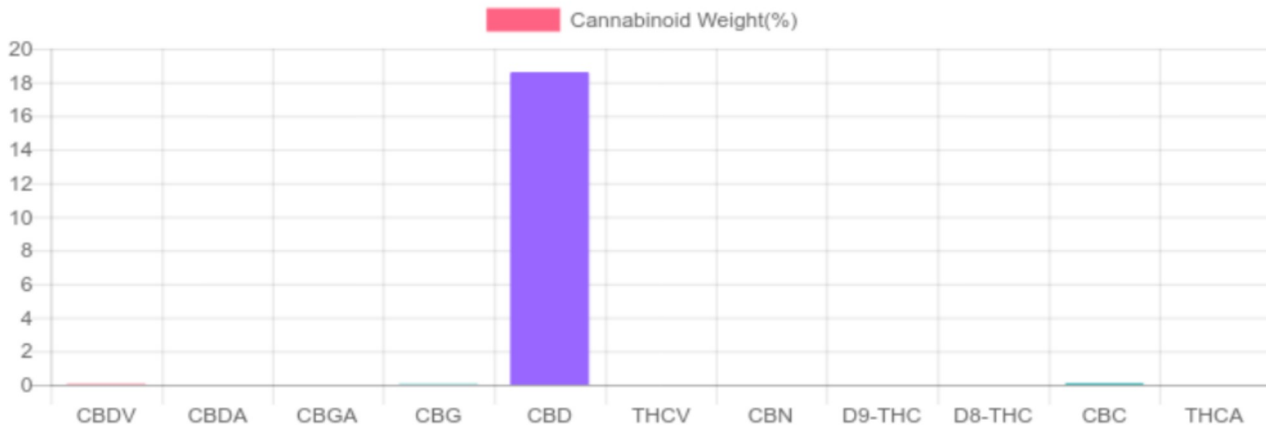
N/D D9-THC	18.605% Total CBD
5,122.8 mg Cannabinoids per tincture	5,079.1 mg CBD per tincture

Cannabinoids Test

SHIMADZU INTEGRATED UPLC-PDA
 GSL SOP 400 PREPARED: 08/09/2019 15:53:18 UPLOADED: 08/08/2019 15:16:18

Cannabinoids	LOQ	weight(%)	mg/g	mg/tincture
D9-THC	10 PPM	N/D	N/D	N/D
THCA	10 PPM	N/D	N/D	N/D
CBD	10 PPM	18.605%	186.048	5,079.1
CBDA	20 PPM	N/D	N/D	N/D
CBDV	20 PPM	0.028%	0.284	7.8
CBC	10 PPM	0.104%	1.044	28.5
CBN	10 PPM	N/D	N/D	N/D
CBG	10 PPM	0.027%	0.270	7.4
CBGA	20 PPM	N/D	N/D	N/D
D8-THC	10 PPM	N/D	N/D	N/D
THCV	10 PPM	N/D	N/D	N/D
TOTAL D9-THC		N/D	N/D	N/D
TOTAL CBD*		18.605%	186.048	5,079.1
TOTAL CANNABINOIDS		18.764%	187.646	5,122.8

1 tincture = 27.3 grams per tincture x
 Cannabinoid concentration



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



4001 SW 47th Avenue Suite 207
 Davie, FL 33314
 1-833-TEST-CBD
 info@greenscientificlabs.com



[Signature]
 Dr. Andrew Hall, Ph.D., CSO & Lab Director

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TERPENES: TOTAL (0.052%)

Headspace GCMS - Shimadzu GCMS QP2020 with HS20

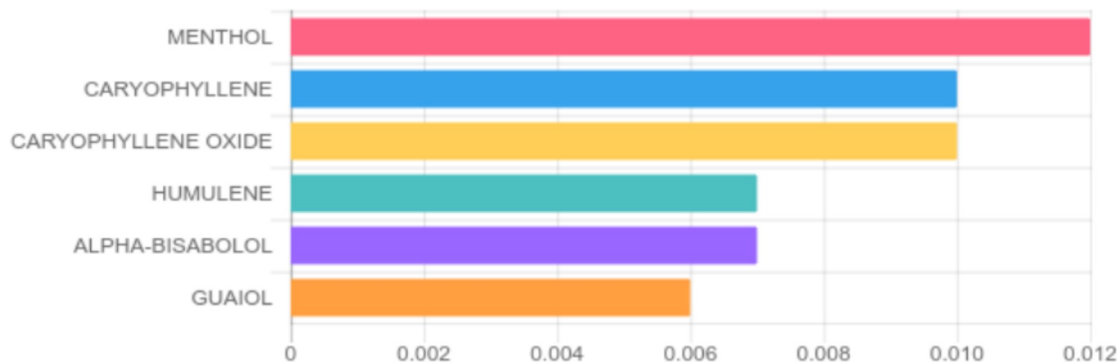
GSL SOP 404
Uploaded: 08/09/2019 16:35:26

Terpene	Results (%)	LOQ (%)	LOD (%)
ALPHA-BISABOLOL	0.007%	0.0067%	0.0063%
CARYOPHYLLENE	0.010%	0.0067%	0.0063%
CARYOPHYLLENE OXIDE	0.010%	0.0067%	0.0063%
GUAIOL	B/LOQ	0.0067%	0.0063%
HUMULENE	0.007%	0.0067%	0.0063%
MENTHOL	0.012%	0.0067%	0.0063%

Terpenes Breakdown



Top Terpenes Results:



Tested for but not present:

ALPHA-PINENE, CAMPHENE, SABINENE, BETA-MYRCENE, BETA-PINENE, ALPHA-PHELLANDRENE, 3-CARENE, ALPHA-TERPINENE, TRANS-BETA-OCIMENE, LIMONENE, CIS-BETA-OCIMENE, EUCALYPTOL, GAMMA-TERPINENE, TERPINOLENE, SABINENE HYDRATE, LINALOOL, FENCHONE, FENCHOL, ISOPULEGOL, CAMPHOR, ISOBORNEOL, BORNEOL, TERPINEOL (MIX OF ISOMERS), GAMMA-TERPINEOL, NEROL, GERANIOL, PULEGONE, GERANYL ACETATE, ALPHA-CEDRENE, VALENCENE, CIS-NEROLIDOL, TRANS-NEROLIDOL, CEDROL



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Microbial Analysis:

Microbial Analysis GSL SOP 406

Uploaded: 08/11/2019 23:34:00

PCR - Agilent AriaMX

Test	Test Method Used	Device Used	LOD	Allowable Criteria	Actual Result	Pass/Fail
STEC E.COLI*	USP 61/62†	ARIAMX PCR	2 COPIES OF DNA	PRESENCE / ABSENT	BELOW LOD	PASS
SALMONELLA*	USP 61/62†	ARIAMX PCR	5 COPIES OF DNA	PRESENCE / ABSENT	BELOW LOD	PASS
ASPERGILLUS	USP 61/62†	ARIAMX PCR	ASP_LOD***	PRESENCE / ABSENT	BELOW LOD	PASS
YEAST AND MOLD	USP 61/62†	ARIAMX PCR	363.05518 CFU/G**	1,000	BELOW THRESHOLD	PASS
TOTAL AEROBIC BACTERIA	USP 61/62†	ARIAMX PCR	0.25316 CFU/G**	10,000	BELOW THRESHOLD	PASS
COLIFORM	USP 61/62†	ARIAMX PCR	3.41539 CFU/G**	100	BELOW THRESHOLD	PASS
ENTEROBACTERIACEAE	USP 61/62†	ARIAMX PCR	0.32951 CFU/G**	100	BELOW THRESHOLD	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 Select Category Type Gummy MIP/Extract Flower 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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CERTIFICATE OF ANALYSIS

ISO/IEC 17025:2017 ACCREDITATION #103104



Order #: 36726
 Order Name: Full Spectrum
 5000 Peppermint
 Batch#: 1918J
 Received: 09/20/2019
 Completed: 09/25/2019



Sample



N/D
D9-THC

20.844%
Total CBD

5,240.0 mg
Cannabinoids per
Unit

5,178.3 mg
CBD per
Unit

Cannabinoids Test

SHIMADZU INTEGRATED UPLC-PDA
 GSL SOP 400

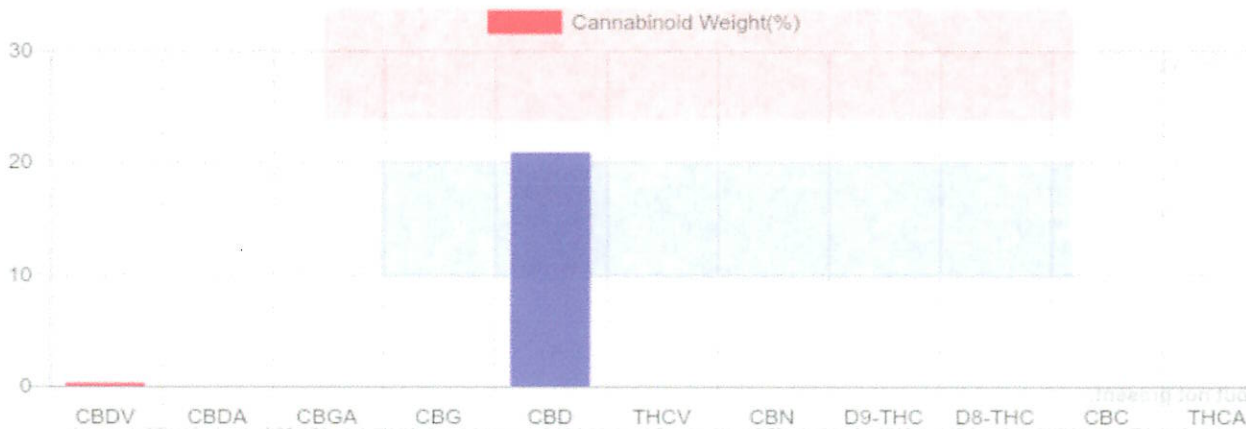
PREPARED: 09/21/2019 21:05:29

UPLOADED: 09/23/2019 15:17:08

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	20.844%	208.443	5,178.3
CBDA	20 PPM	N/D	N/D	N/D
CBDV	20 PPM	0.248%	2.484	61.7
CBC	10 PPM	N/D	N/D	N/D
CBN	10 PPM	N/D	N/D	N/D
CBG	10 PPM	N/D	N/D	N/D
CBGA	20 PPM	N/D	N/D	N/D
D8-THC	10 PPM	N/D	N/D	N/D
THCV	10 PPM	N/D	N/D	N/D

TOTAL D9-THC	N/D	N/D	N/D
TOTAL CBD*	20.844%	208.443	5,178.3
TOTAL CANNABINOIDS	21.092%	210.927	5,240.0

1 Unit = 27.3 ml per Unit x density (.91) x
 Cannabinoid concentration



Reporting Limit 10 ppm

*Total CBD = CBD + CBDA x 0.877

N/D - Not Detected, B/LOQ - Below Limit of Quantification



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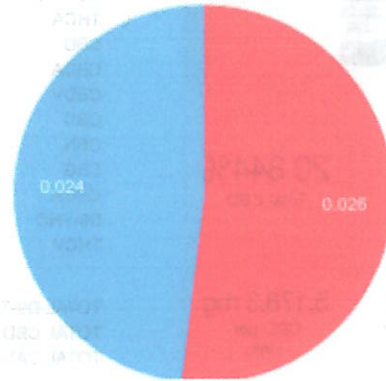
TERPENES: TOTAL (0.050%)

Headspace GCMS - Shimadzu GCMS QP2020 with HS20

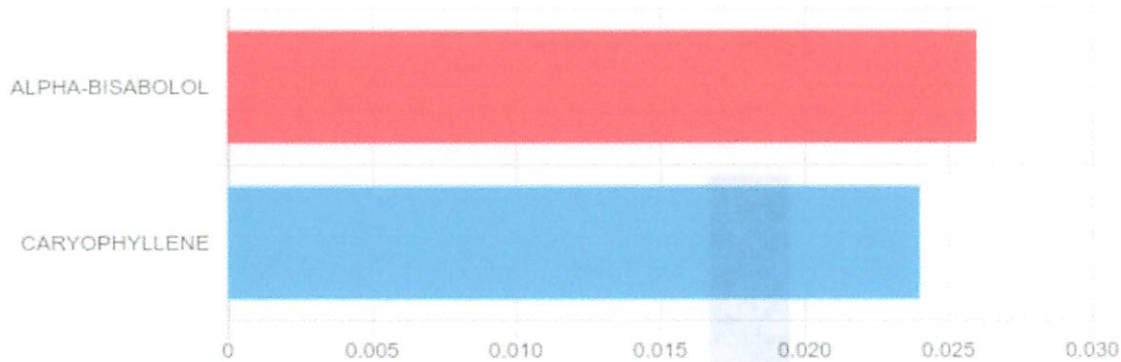
GSL SOP 404
Prepared: 09/21/2019 21:27:32
Uploaded: 09/23/2019 15:58:35

Terpene	Results (%)	LOQ (%)	LOD (%)
ALPHA-BISABOLOL	0.026%	0.0067%	0.0063%
CARYOPHYLLENE	0.024%	0.0067%	0.0063%

Terpenes Breakdown



Top Terpenes Results:



Tested for but not present:

ALPHA-PINENE, CAMPHENE, BETA-MYRCENE, BETA-PINENE, 3-CARENE, ALPHA-TERPINENE, TRANS-BETA-OCIMENE, LIMONENE, P-CYMENE, CIS-BETA-OCIMENE, EUCALYPTOL, GAMMA-TERPINENE, TERPINOLENE, LINALOOL, ISOPULEGOL, GERANIOL, HUMULENE, CIS-NEROLIDOL, TRANS-NEROLIDOL, GUAJOL, CARYOPHYLLENE OXIDE



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Microbial Analysis:

Microbial Analysis GSL SOP 406

Uploaded: 09/25/2019 13:32:28

PCR - Agilent AriaMX

Test	Test Method Used	Device Used	LOD	Allowable Criteria	Actual Result	Pass/Fail
STEC E.COLI*	USP 61/62†	ARIAMX PCR	2 COPIES OF DNA	PRESENCE / ABSENCE	BELOW LOD	PASS
SALMONELLA*	USP 61/62†	ARIAMX PCR	5 COPIES OF DNA	PRESENCE / ABSENCE	BELOW LOD	PASS
ASPERGILLUS	USP 61/62†	ARIAMX PCR	ASP_LOD***	PRESENCE / ABSENCE	BELOW LOD	PASS
YEAST AND MOLD	USP 61/62†	ARIAMX PCR	363.05518 CFU/G**	1,000	BELOW THRESHOLD	PASS
TOTAL AEROBIC BACTERIA	USP 61/62†	ARIAMX PCR	0.25316 CFU/G**	10,000	BELOW THRESHOLD	PASS
COLIFORM	USP 61/62†	ARIAMX PCR	3.41539 CFU/G**	100	BELOW THRESHOLD	PASS
ENTEROBACTERIACEAE	USP 61/62†	ARIAMX PCR	0.32951 CFU/G**	100	BELOW THRESHOLD	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 Select Category Type Gummy MIP/Extract Flower matrix

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