

# CERTIFICATE OF ANALYSIS

## ISO/IEC 17025:2017 ACCREDITATION #103104



Order #: 38273  
 Order Name: Full Spectrum  
 2500 Peppermint  
 Batch#: 1908K  
 Received: 10/10/2019  
 Completed: 10/16/2019



### Sample



N/D  
D9-THC

9.578%  
Total CBD

2,717.0 mg  
Cannabinoids per  
unit

2,715.2 mg  
CBD per  
unit

### Cannabinoids Test

SHIMADZU INTEGRATED UPLC-PDA

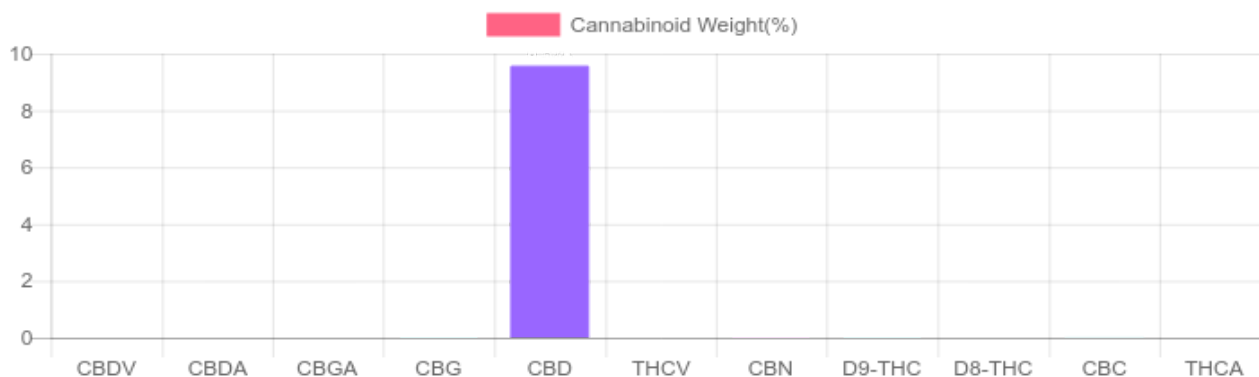
GSL SOP 400

PREPARED: 10/11/2019 20:04:34

UPLOADED: 10/12/2019 13:33:59

Cannabinoids	LOQ	weight(%)	mg/g	mg/unit
D9-THC	10 PPM	B/LOQ	B/LOQ	B/LOQ
THCA	10 PPM	N/D	N/D	N/D
CBD	10 PPM	9.578%	95.775	2,715.2
CBDA	20 PPM	N/D	N/D	N/D
CBDV	20 PPM	N/D	N/D	N/D
CBC	10 PPM	0.006%	0.064	1.8
CBN	10 PPM	B/LOQ	B/LOQ	B/LOQ
CBG	10 PPM	B/LOQ	B/LOQ	B/LOQ
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*		9.578%	95.775	2,715.2
TOTAL CANNABINOIDS		9.584%	95.839	2,717.0

1 unit = 30 ml per unit x density (0.945) 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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Accreditation #103104



Dr. Andrew Hall, Ph.D., CSO & Lab Director

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### TERPENES: TOTAL (0.036%)

Headspace GCMS - Shimadzu GCMS QP2020 with HS20

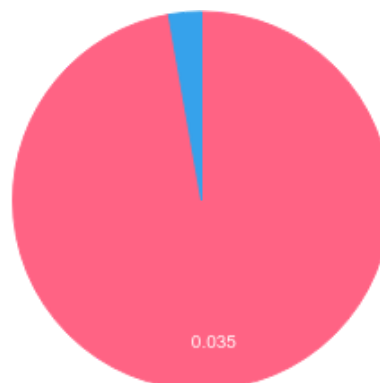
GSL SOP 404

Prepared: 10/11/2019 21:02:31

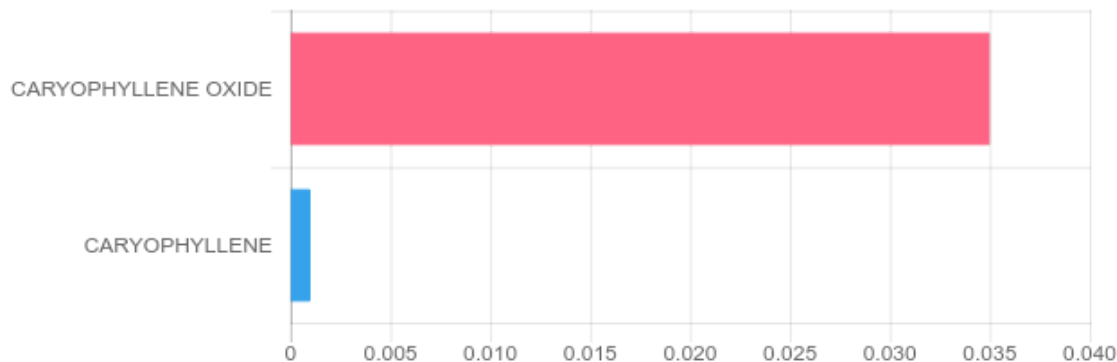
Uploaded: 10/14/2019 19:31:38

Terpene	Results (%)	LOQ (%)	LOD (%)
CARYOPHYLLENE	B/LOQ	0.0067%	0.0063%
CARYOPHYLLENE OXIDE	0.035%	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, ISOPULEGOL, GERANIOL, HUMULENE, CIS-NEROLIDOL, TRANS-NEROLIDOL, GUAIOL, ALPHA-BISABOLOL



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### Microbial Analysis:

Microbial Analysis GSL SOP 406

Uploaded: 10/14/2019 20:08:00

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
LISTERIA MONOCYTOGENES		ARIAMX PCR	2 COPIES OF DNA	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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