

Order #: 49075 Order Name: Full Spectrum 5000 Natural Batch#: 2010B Received: 02/17/2020 Completed: 02/19/2020



#### Sample



0.034% D9-THC 17.838% Total CBD

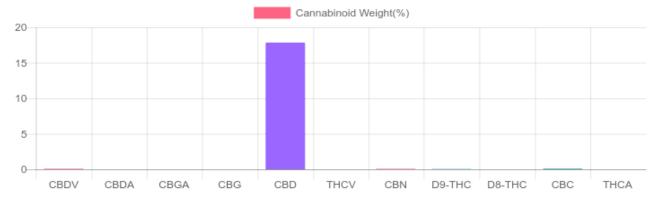
5,015.9 mg Cannabinoids per bottle 4,933.9 mg CBD per bottle

1 bottle = 27.66 grams per bottle x Cannabinoid concentration

#### **Cannabinoids Test**

SHIMADZU INTEGRATED UPLC-PDA

GSL SOP 400	PREPARED: 02/17/2020 14:57:01		UPLOADED: 02/19/2020 08:20		
Cannabinoids	LOQ	weight(%)	mg/g	mg/bottle	
D9-THC	10 PPM	0.034%	0.345	9.5	
THCA	10 PPM	N/D	N/D	N/D	
CBD	10 PPM	17.838%	178.378	4,933.9	
CBDA	20 PPM	N/D	N/D	N/D	
CBDV	20 PPM	0.075%	0.751	20.8	
CBC	10 PPM	0.112%	1.122	31.0	
CBN	10 PPM	0.064%	0.640	17.7	
CBG	10 PPM	0.011%	0.108	3.0	
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		0.034%	0.034%	9.5	
TOTAL CBD*		17.838%	178.378	4,933.9	
TOTAL CANNABINOIDS		18.134%	181.344	5,015.9	



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 (0.038%)** 

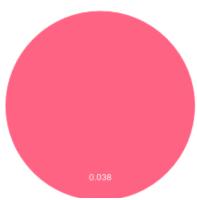
Headspace GCMS - Shimadzu GCMS QP2020 with HS20

LOQ (%) LOD (%) **Terpene** Results (%) CARYOPHYLLENE 0.0067% 0.0063% 0.038%

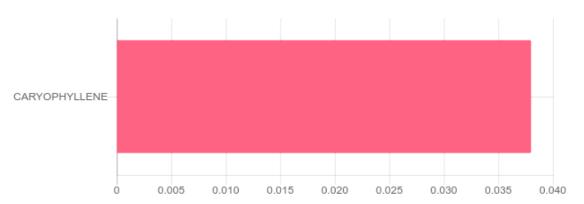
GSL SOP 404

Prepared: 02/17/2020 17:36:39 Uploaded: 02/18/2020 08:44:04





### **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, GUAIOL, CARYOPHYLLENE OXIDE, ALPHA-BISABOLOL

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#### **PESTICIDE ANALYSIS:**

GSL SOP 401 PREPARED: 02/17/2020 16:22:31 UPLOADED: 02/18/2020 12:10:59

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
CYFLUTHRIN	1.000	N/D	0.003	0.001

Pesticide	Action Level Results			LOD
resticide	(ppm)	(ppm)	(ppm)	(ppm)
CYPERMETHRIN	1.000	N/D	0.003	0.001
FIPRONIL	0.100	N/D	0.003	0.001
FLUDIOXONIL	3.000	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)	Pesticide	Action Level (ppm)	Results (ppm)	LOQ (ppm)	LOD (ppm)
ABAMECTIN B1A	0.300	N/D	0.005	0.001	IMIDACLOPRID	3.000	N/D	0.005	0.001
ACEPHATE	3.000	N/D	0.001	0.001	KRESOXIM-METHYL	1.000	N/D	0.010	0.005
ACEQUINOCYL	2.000	N/D	0.001	0.001	MALATHION	2.000	N/D	0.005	0.001
ACETAMIPRID	3.000	N/D	0.005	0.001	METALAXYL	3.000	N/D	0.001	0.001
ALDICARB	0.100	N/D	0.005	0.001	METHIOCARB	0.100	N/D	0.005	0.001
AZOXYSTROBIN	3.000	N/D	0.001	0.001	METHOMYL	0.100	N/D	0.001	0.001
BIFENAZATE	3.000	N/D	0.005	0.001	MEVINPHOS	0.100	N/D	0.001	0.001
BIFENTHRIN	0.500	N/D	0.005	0.001	MYCLOBUTANIL	3.000	N/D	0.005	0.001
BOSCALID	3.000	N/D	0.005	0.001	NALED	0.500	N/D	0.005	0.001
CARBARYL	0.500	N/D	0.003	0.001	OXAMYL	0.500	N/D	0.001	0.001
CARBOFURAN	0.100	N/D	0.001	0.001	PACLOBUTRAZOL	0.100	N/D	0.005	0.001
CHLORANTRANILIPROLE	3.000	N/D	0.005	0.005	PERMETHRINS	1.000	N/D	0.005	0.001
CHLORMEQUAT	2.000	N/D	0.005	0.005	PHOSMET	0.200	N/D	0.005	0.001
CHLORIDE	3.000	N/D	0.025	0.025	PIPERONYL	2.000	N/D	0.004	0.004
CHLORPYRIFOS	0.100	N/D	0.001	0.001	BUTOXIDE	3.000	IN/D	0.001	0.001
CLOFENTEZINE	0.500	N/D	0.001	0.001	PRALLETHRIN	0.400	N/D	0.005	0.005
DAMINOZIDE	0.100	N/D	0.005	0.001	PROPICONAZOLE	1.000	N/D	0.010	0.005
DIAZINON	0.200	N/D	0.001	0.001	PROPOXUR	0.100	N/D	0.001	0.001
DICHLORVOS	0.100	N/D	0.005	0.001	PYRETHRINS	1.000	N/D	0.005	0.005
DIMETHOATE	0.100	N/D	0.001	0.001	(PYRETHRIN I)	1.000	IN/D	0.005	0.005
DIMETHOMORPH	3.000	N/D	0.005	0.001	PYRIDABEN	3.000	N/D	0.005	0.001
ETHOPROPHOS	0.100	0.015	0.001	0.001	SPINETORAM	3.000	N/D	0.001	0.001
ETOFENPROX	0.100	N/D	0.001	0.001	SPINOSAD	3.000	N/D	0.001	0.001
ETOXAZOLE	1.500	N/D	0.010	0.005	(SPINOSYN A)	3.000	IN/D	0.001	0.001
FENHEXAMID	3.000	N/D	0.005	0.001	SPINOSAD	3.000	N/D	0.001	0.001
FENOXYCARB	0.100	N/D	0.005	0.001	(SPINOSYN D)	3.000	IN/D	0.001	0.001
FENPYROXIMATE	2.000	N/D	0.001	0.001	SPIROMESIFEN	3.000	N/D	0.005	0.001
FLONICAMID	2.000	N/D	0.025	0.010	SPIROTETRAMAT	3.000	N/D	0.001	0.001
HEXYTHIAZOX	2.000	N/D	0.005	0.001	SPIROXAMINE	0.100	N/D	0.001	0.001
IMAZALIL	0.100	N/D	0.005	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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Ben Witten, MS, MT., Lab Director

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#### **RESIDUAL SOLVENTS:**

Headspace GCMS - Shimadzu GCMS QP2020 with HS20

GSL SOP 405

Prepared: 02/17/2020 18:04:23 Uploaded: 02/18/2020 09:06:22

Residual Solvent	Action Level (ppm)	Results (ppm)	LOQ (ppm)	LOD (ppm)
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
DICHLOROETHANE	1	N/D	1	0.5
DICHLOROMETHANE	1	N/D	1	0.5
ETHANOL	5,000	165	140	20
ETHYL ACETATE	5,000	N/D	140	20
ETHYL ETHER	5,000	N/D	140	20
SOPROPYL ALCOHOL	5,000	N/D	140	20
METHANOL	3,000	N/D	100	20
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
TRICHLOROETHENE	1	N/D	0	0
XYLENES	2,170	N/D	130	20

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#### **Microbial Analysis:**

Microbial Analysis GSL SOP 406

Uploaded: 02/18/2020 17:10:46

PCR - Agilent AriaMX <b>Test</b>	Test Method Used	Device Used	LOD	Allowable Criteria	Actual Result	Pass/Fail
YEAST AND MOLD	USP 61/62†	ARIAMX PCR	363.05518 CFU/G**	1,000	BELOW THRESHOLD	PASS
PATHOGENIC E.COLI*	USP 61/62†	ARIAMX PCR	2 COPIES OF DNA	PRESENCE / ABSENT	BELOW LOD	PASS
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

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

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<sup>\*</sup> STEC and Salmonella run as Multiplex

<sup>\*\*</sup> CFU/g Calculation based on Select Category Type Gummy MIP/Extract Flower matrix



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#### **Mycotoxin Analysis:**

LC-MS - Shimadzu LCMS-8060 GSL SOP 401

Uploaded: 02/18/2020 12:10:58

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 4ppb, LOD is 1ppb

#### **Moisture Analysis:**

Shimadzu MOC63U Moisture Balance - GSL SOP 411

Uploaded: 02/18/2020 11:24:39

Moisture %

3.22%

#### **Heavy Metals Analysis:**

ICP-MS - Shimadzu ICPMS-2030

GSL SOP 403

Uploaded: 02/17/2020 17:35:00

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: 02/18/2020 11:24:39

Water

0.64

### Filth and Foreign Materials Analysis:

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

Uploaded: 02/17/2020 16:28:38

Pass: No Foreign Materials Detected

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