

Order #: 47470 Order Name: Full Spectrum 1000 Natural Batch#: 2028A Received: 01/28/2020 Completed: 02/05/2020



Sample



0.002% D9-THC

3.731% Total CBD

1,031.5 mg Cannabinoids per bottle

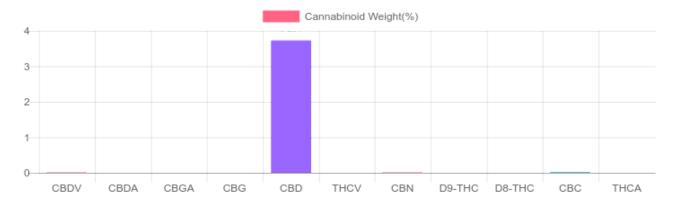
1,018.4 mg CBD per bottle

1 bottle = 30 ml per bottle x density (0.91) x Cannabinoid concentration

Cannabinoids Test

SHIMADZU INTEGRATED UPLC-PDA

GSL SOP 400	PREPARED: 01/28/2020 16:25:53		UPLOADED: 01	/29/2020 18:12:34
Cannabinoids	LOQ	weight(%)	mg/g	mg/bottle
D9-THC	10 PPM	0.002%	0.015	0.4
THCA	10 PPM	N/D	N/D	N/D
CBD	10 PPM	3.731%	37.305	1,018.4
CBDA	20 PPM	N/D	N/D	N/D
CBDV	20 PPM	0.012%	0.119	3.2
CBC	10 PPM	0.023%	0.226	6.2
CBN	10 PPM	0.012%	0.121	3.3
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		0.002%	0.002%	0.4
TOTAL CBD*		3.731%	37.305	1,018.4
TOTAL CANNABINOIDS		3.780%	37.786	1,031.5



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 (0.005%)

Headspace GCMS - Shimadzu GCMS QP2020 with HS20

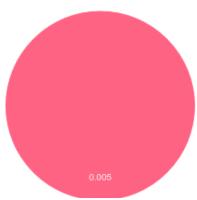
 Terpene
 Results (%)
 LOQ (%)
 LOD (%)

 CARYOPHYLLENE
 B/LOQ
 0.0067%
 0.0063%

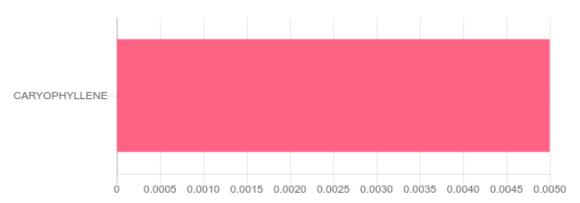
GSL SOP 404

Prepared: 01/28/2020 16:38:49 Uploaded: 01/29/2020 08:43:15





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: 01/28/2020 16:39:59 UPLOADED: 01/30/2020 16:43:11

GCMS-MS - Shimadzu GCMS-TQ8040

Pesticide	Action Level (ppm)	Results (ppm)	LOQ (ppm)	LOD (ppm)
CHLORFENAPYR	0.010	N/D	0.003	0.001
COUMAPHOS	0.010	N/D	0.003	0.001
CYFLUTHRIN	0.010	N/D	0.003	0.001
CYPERMETHRIN	0.500	N/D	0.003	0.001

Pesticide	Action Level	l Results	LOQ	LOD
resticide	(ppm)	(ppm)	(ppm)	(ppm)
FIPRONIL	0.010	N/D	0.003	0.001
FLUDIOXONIL	0.020	N/D	0.003	0.001
PENTACHLORONITROBENZENE	Ξ 0.030	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	0.020	N/D	0.005	0.001	METALAXYL	0.010	N/D	0.001	0.001
ACEPHATE	0.020	N/D	0.001	0.001	METHIOCARB	0.010	N/D	0.005	0.001
ACEQUINOCYL	0.020	N/D	0.001	0.001	METHOMYL	0.010	N/D	0.001	0.001
ACETAMIPRID	10.000	N/D	0.005	0.001	MEVINPHOS	0.010	N/D	0.001	0.001
ALDICARB	0.010	N/D	0.005	0.001	MYCLOBUTANIL	0.020	N/D	0.005	0.001
AZOXYSTROBIN	0.100	N/D	0.001	0.001	NALED	0.010	N/D	0.005	0.001
BIFENAZATE	0.010	N/D	0.005	0.001	OXAMYL	0.026	N/D	0.001	0.001
CHLORMEQUAT	4.000	N/D	0.000	0.004	PACLOBUTRAZOL	0.010	N/D	0.005	0.001
CHLORIDE	1.000	N/D	0.003	0.001	PERMETHRINS	0.020	N/D	0.005	0.001
CHLORPYRIFOS	0.020	N/D	0.001	0.001	PHOSMET	0.020	N/D	0.005	0.001
CLOFENTEZINE	0.040	N/D	0.001	0.001	PIPERONYL	0.000	N/D	0.004	0.004
DAMINOZIDE	0.010	N/D	0.005	0.001	BUTOXIDE	3.000	N/D	0.001	0.001
DIAZANON	0.010	N/D	0.001	0.001	PRALLETHRIN	0.020	N/D	0.005	0.005
DICHLORVOS	0.020	N/D	0.005	0.001	PROPICONAZOLE	0.020	N/D	0.010	0.005
DIMETHOATE	0.010	N/D	0.001	0.001	PROPOXUR	0.020	N/D	0.001	0.001
DIMETHOMORPH	0.010	N/D	0.005	0.001	PYRETHRINS	0.500	NVD	0.005	0.005
ETHOPROPHOS	0.010	N/D	0.001	0.001	(PYRETHRIN I)	0.500	N/D	0.005	0.005
ETOFENPROX	0.010	N/D	0.001	0.001	PYRIDABEN	0.020	N/D	0.005	0.001
ETOXAZOLE	0.010	N/D	0.010	0.005	SPINETORAM	0.040	N/D	0.001	0.001
FENHEXAMID	0.080	N/D	0.005	0.001	SPINOSAD	0.000	NUD	0.004	0.004
FENOXYCARB	0.010	N/D	0.005	0.001	(SPINOSYN A)	0.020	N/D	0.001	0.001
FENPYROXIMATE	0.100	N/D	0.001	0.001	SPINOSAD	0.000	NID	0.004	0.004
FLONICAMID	0.100	N/D	0.025	0.010	(SPINOSYN D)	0.020	N/D	0.001	0.001
HEXYTHIAZOX	0.100	N/D	0.005	0.001	SPIROMESIFEN	0.030	N/D	0.005	0.001
IMAZALIL	0.010	N/D	0.005	0.001	SPIROTETRAMAT	0.020	N/D	0.001	0.001
IMIDACLOPRID	0.020	N/D	0.005	0.001	SPIROXAMINE	0.010	N/D	0.001	0.001
KRESOXIM-METHYL	0.020	N/D	0.010	0.005	TEBUCONAZOLE	0.010	N/D	0.005	0.001
MALATHION	0.010	N/D	0.005	0.001	THIACLOPRID	0.010	N/D	0.001	0.001
					THIAMETHOXAM	0.010	N/D	0.001	0.001
					TRIFLOXYSTROBIN	0.020	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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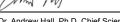
RESIDUAL SOLVENTS:

Headspace GCMS - Shimadzu GCMS QP2020 with HS20

GSL SOP 405

Prepared: 01/28/2020 16:43:03 Uploaded: 01/29/2020 12:15:34

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	N/D	140	20
ETHYL ACETATE	5,000	N/D	140	20
ETHYL ETHER	5,000	N/D	140	20
ISOPROPYL 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: 02/05/2020 09:46:47

PCR - Agilent AriaMX Test	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

[†] 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 Select Category Type Gummy MIP/Extract Flower matrix



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Mycotoxin Analysis:

LC-MS - Shimadzu LCMS-8060 GSL SOP 401

Uploaded: 01/30/2020 16:43:11

Analyte	Action LvI (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: 01/29/2020 17:02:12

Moisture %

2.65%

Heavy Metals Analysis:

ICP-MS - Shimadzu ICPMS-2030

GSL SOP 403

Uploaded: 01/29/2020 17:55:24

Metal	Action Level (ppb)	Result (ppb)
ARSENIC (AS)	200	B/LOQ
CADMIUM (CD)	200	B/LOQ
MERCURY (HG)	100	B/LOQ
LEAD (PB)	500	188

Lower Limit of Quantitation (LOQ) is 75 ppb

Water Activity:

HD-3A Water Activity Meter - GSL SOP 407

Uploaded: 01/29/2020 17:02:12

Water

0.60

Filth and Foreign Materials Analysis:

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

Uploaded: 01/29/2020 17:08:24

Pass: No Foreign Materials Detected

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