

CERTIFICATE OF ANALYSIS

ISO/IEC 17025:2017 ACCREDITATION #103104



Order #: 89686
 Order Name: 25mg Full
 Spectrum Softgels
 Batch#: Lot #0216-1
 Received: 08/11/2020
 Completed: 03/15/2021

Sample



0.219%
D9-THC

6.112%
Total CBD

28.1 mg
Cannabinoids per
softgel

25.1 mg
CBD per
softgel

1 softgel = 0.410 grams per softgel x
Cannabinoid concentration

Cannabinoids Test

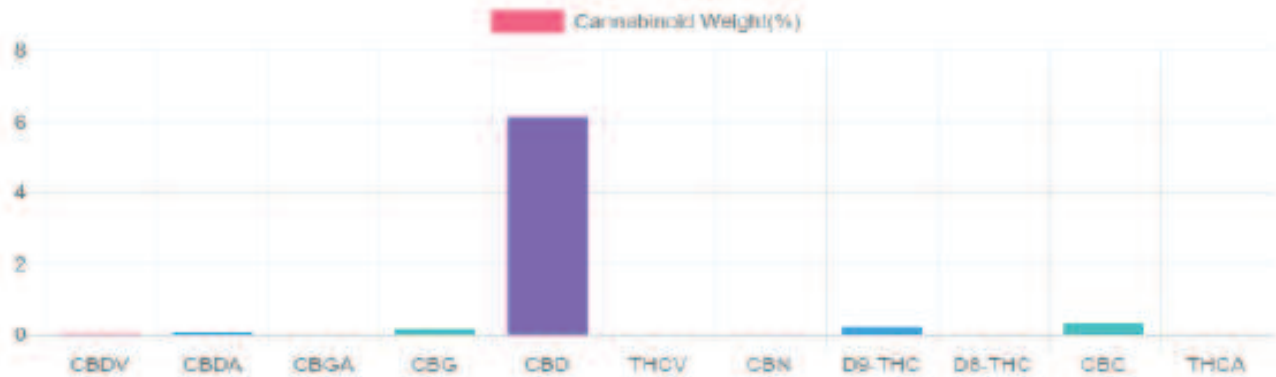
SHIMADZU INTEGRATED UPLC-PDA

GSL SOP 400

PREPARED: 08/12/2020 20:08:35

UPLOADED: 08/13/2020 15:41:48

Cannabinoids	LOQ	weight(%)	mg/g	mg/softgel
D9-THC	10 PPM	0.219%	2.193	0.9
THCA	10 PPM	N/D	N/D	N/D
CBD	10 PPM	6.112%	61.121	25.1
CBDA	20 PPM	0.051%	0.510	0.2
CBDV	20 PPM	0.025%	0.251	0.1
CBC	10 PPM	0.300%	2.999	1.2
CBN	10 PPM	0.010%	0.104	0.0
CBG	10 PPM	0.140%	1.396	0.6
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		0.219%	0.219%	0.9
TOTAL CBD*		6.112%	61.121	25.1
TOTAL CANNABINOIDS		6.657%	66.574	26.1



Reporting Limit 10 ppm

*Total CBD = CBD + CBDA x 0.877

N/D - Not Detected, B.L.O.Q. - Below Limit of Quantification

Dr. Andrew Hall, Ph.D., Chief Scientific Officer

Ben Widen, MS, MT, Lab Director

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CERTIFICATE OF ANALYSIS

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Order #: 59695
 Order Name: 25mg Full
 Spectrum Softgels
 Batch#: Lot #0216-1
 Received: 06/11/2020
 Completed: 03/15/2021

PESTICIDE ANALYSIS:

GSL 90P 401

PREPARED: 06/12/2020 20:09:45

UPLOADED: 06/17/2020 13:57:55

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

LCMS-MS - Shimadzu LCMS-8050

Pesticide	Action Level (ppm)	Results (ppm)	LOQ (ppm)	LOD (ppm)
ABAMECTIN B1A	0.300	N/D	0.005	0.001
ACEPHATE	3.000	N/D	0.001	0.001
ACEQUINOCYL	2.000	N/D	0.001	0.001
ACETAMIPRID	3.000	N/D	0.005	0.001
ALDICARB	0.100	N/D	0.005	0.001
AZOXYSTROBIN	3.000	N/D	0.001	0.001
BIFENAZATE	3.000	N/D	0.005	0.001
BIFENTHRIN	0.500	N/D	0.005	0.001
BOSCALID	3.000	N/D	0.005	0.001
CARBARYL	0.500	N/D	0.003	0.001
CARBOFURAN	0.100	N/D	0.001	0.001
CHLORANTRANILIPROLE	3.000	N/D	0.005	0.005
CHLORMEQUAT CHLORIDE	3.000	N/D	0.025	0.025
CHLORPYRIFOS	0.100	N/D	0.001	0.001
CLOFENTEZINE	0.500	N/D	0.001	0.001
DAMINOZIDE	0.100	N/D	0.005	0.001
DIAZINON	0.200	N/D	0.001	0.001
DICHLORVOS	0.100	N/D	0.005	0.001
DIMETHOATE	0.100	N/D	0.001	0.001
DIMETHOMORPH	3.000	N/D	0.005	0.001
ETHOPROPHOS	0.100	N/D	0.001	0.001
ETOFENPROX	0.100	N/D	0.001	0.001
ETOXAZOLE	1.500	N/D	0.010	0.005
FENHEXAMID	3.000	N/D	0.005	0.001
FENOXICARB	0.100	N/D	0.005	0.001
FENPYROXIMATE	2.000	N/D	0.001	0.001
FIPRONIL	0.100	N/D	0.003	0.001
FLONICAMID	2.000	N/D	0.025	0.010
FLUDIOXONIL	3.000	N/D	0.003	0.001
HEXYTHIAZOX	2.000	N/D	0.005	0.001

Pesticide	Action Level (ppm)	Results (ppm)	LOQ (ppm)	LOD (ppm)
IMAZALIL	0.100	N/D	0.005	0.001
IMIDACLOPRID	3.000	N/D	0.005	0.001
KRESOXIM-METHYL	1.000	N/D	0.010	0.005
MALATHION	2.000	N/D	0.005	0.001
METALAXYL	3.000	N/D	0.001	0.001
METHIOCARB	0.100	N/D	0.005	0.001
METHOMYL	0.100	N/D	0.001	0.001
MEVINPHOS	0.100	N/D	0.001	0.001
MYCLOBUTANIL	3.000	N/D	0.005	0.001
NALED	0.500	N/D	0.005	0.001
OKAMYL	0.500	N/D	0.001	0.001
PACLOBUTRAZOL	0.100	N/D	0.005	0.001
PERMETHRINS	1.000	N/D	0.005	0.001
PHOSMET	0.200	N/D	0.005	0.001
PIPERONYL BUTOXIDE	3.000	N/D	0.001	0.001
PRALLETHRIN	0.400	N/D	0.005	0.005
PROPICONAZOLE	1.000	N/D	0.010	0.005
PROPOXUR	0.100	N/D	0.001	0.001
PYRETHRINS (PYRETHRIN I)	1.000	N/D	0.005	0.005
PYRIDABEN	3.000	N/D	0.005	0.001
SPINETORAM	3.000	N/D	0.001	0.001
SPINOSAD	3.000	N/D	0.001	0.001
SPIROMESIFEN	3.000	N/D	0.005	0.001
SPIROTETRAMAT	3.000	N/D	0.001	0.001
SPIROXAMINE	0.100	N/D	0.001	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

ND = Not Detected, A/LOQ = Above LOQ Level, B/LOQ = Below LOQ Level, B/LOD = Below LOD Level

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Order #: 59666
 Order Name: 25mg Full
 Spectrum Softgels
 Batch#: Lot #0216-1
 Received: 08/11/2020
 Completed: 03/15/2021

RESIDUAL SOLVENTS:

Headspace GCMS - Shimadzu GCMS QP2020 with HS20

GSL SOP 405
 Prepared: 08/12/2020 21:33:45
 Uploaded: 08/14/2020 14:03:32

Residual Solvent	Action Level (ppm)	Results (ppm)	LOQ (ppm)	LOD (ppm)
1,1-DICHLOROETHENE	8	ND	0.63	0.63
1,2-DICHLOROETHANE	2	ND	0.12	0.02
ACETONE	5,000	ND	140	20
ACETONITRILE	410	ND	25	1
BENZENE	1	ND	1	0.5
BUTANE	5,000	ND	50	10
CHLOROFORM	1	ND	1	0.5
CIS 1,2-DICHLOROETHENE	5	ND	0.73	0.16
ETHANOL	5,000	B/LOQ	140	20
ETHYL ACETATE	5,000	B/LOQ	140	20
ETHYL ETHER	5,000	ND	140	20
ETHYLENE OXIDE	1	ND	0	0
ISOPROPYL ALCOHOL	5,000	ND	140	20
METHANOL	3,000	ND	100	20
METHYLENE CHLORIDE	125	ND	0.15	0.15
N-HEPTANE	5,000	ND	140	20
N-HEXANE	290	ND	18	10
PENTANE	5,000	ND	140	20
PROPANE	5,000	ND	20	1
TOLUENE	890	ND	53	1
TRANS 1,2-DICHLOROETHENE	5	ND	0.73	0.16
TRICHLOROETHENE	1	ND	1	0.5
XYLENES	150	ND	130	20

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Order #: 59686
 Order Name: 25mg Full
 Spectrum Softgels
 Batch#: Lot #0216-1
 Received: 08/11/2020
 Completed: 03/15/2021

Microbial Analysis:

Microbial Analysis GSL SOP 406

PCR - Agilent AriaMX

Uploaded: 08/17/2020 15:59:55

MICROBIAL ANALYSIS:

PCR - Agilent AriaMX

Test	SOP	Test Method	Device Used	LOD	Allowable Criteria	Actual Result	Pass/Fail
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/Coffm), USP 62 (identifying specific species E.coli, Aspergillus etc)

*STEC and Salmonella run as Multiplex

** CFU/g Calculation based on MPEExtract matrix

*** Flavix = 2 Copies of DNA / Fungigels = 2 Copies of DNA Nizer = 20 Copies of DNA / Tarris = 10 copies of DNA

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Order #: 59656
Order Name: 25mg Full
Spectrum Softgels
Batch#: Lot #0216-1
Received: 08/11/2020
Completed: 03/15/2021

Mycotoxin Analysis:

LC-MS - Shimadzu LCMS-8060
GSL SOP 401

Uploaded: 08/17/2020 13:57:55

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 1ppb, LOD is 1ppb

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

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