

CERTIFICATE OF ANALYSIS

PRODUCT NAME: Mint Tinture
PRODUCT STRENGTH: 225 mg
LOT NUMBER: 191216A
BEST BY DATE: 6/9/2021
HEMP EXTRACT LOT: 111919

[*Click on the links to view third-party reports*](#)

Physical Attributes

Test	Method	Specification	Results
Color	SOP-100	Golden to amber	PASS
Odor	SOP-100	Characteristic - olive and hemp oil, minty	PASS
Appearance	SOP-100	Golden to amber oil in brown glass bottle and dropper cap	PASS
Primary Package Eval.	SOP-132	Container clean and free of filth. Container caps tight and shrink bands intact	PASS
Secondary Package Eval.	SOP-132	Labeling Compliance Checked, Cartons sturdy and clean. Sufficient cushion material exists. Box taped and secure.	PASS

Review of Third-Party Analysis

Panel	Method	Specification	Results	Pass/Fail
Potency - Total CBD	SOP-111	213.75-281.25 mg CBD LOQ*: 10 PPM† (0.001%)	<u>257.9 mg</u>	PASS
Potency - D9-THC	SOP-111	None Detected LOQ: 10 PPM (0.001%)	<u>ND</u>	PASS
FL Compliant Pesticide Panel	SOP-111	Florida State Hemp Program Rule 5B-57.014: Action Limits for Pesticides	<u>ND</u>	PASS
Microbial - Stec E.Coli	SOP-111	Complies with USP 61/62	<u><LOQ</u>	PASS
Microbial - Salmonella	SOP-111	Complies with USP 61/62	<u><LOQ</u>	PASS
Microbial - Aspergillus	SOP-111	Complies with USP 61/62	<u><LOQ</u>	PASS
CA Compliant Heavy Metal Panel	SOP-111	Arsenic (As): ≤1.5 PPM Cadmium (Cd): ≤0.5 PPM Mercury (Hg): ≤1.0 PPM Lead (Pb): ≤0.5 PPM	<u><LOQ</u>	PASS

* Level of Quantitation, † Parts Per Million

Quality Certified by:

Darcie Moran

Darcie Moran
Director of Quality Assurance

1/17/2020

Date

CERTIFICATE OF ANALYSIS

ISO/IEC 17025:2017 ACCREDITATION #103104



Order #: 44693
 Order Name: CTM225-191216A
 Batch#: 4
 Received: 12/20/2019
 Completed: 12/27/2019



Sample



N/D
D9-THC

0.860%
Total CBD

267.3 mg
Cannabinoids per bottle

257.9 mg
CBD per bottle

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

Cannabinoids Test

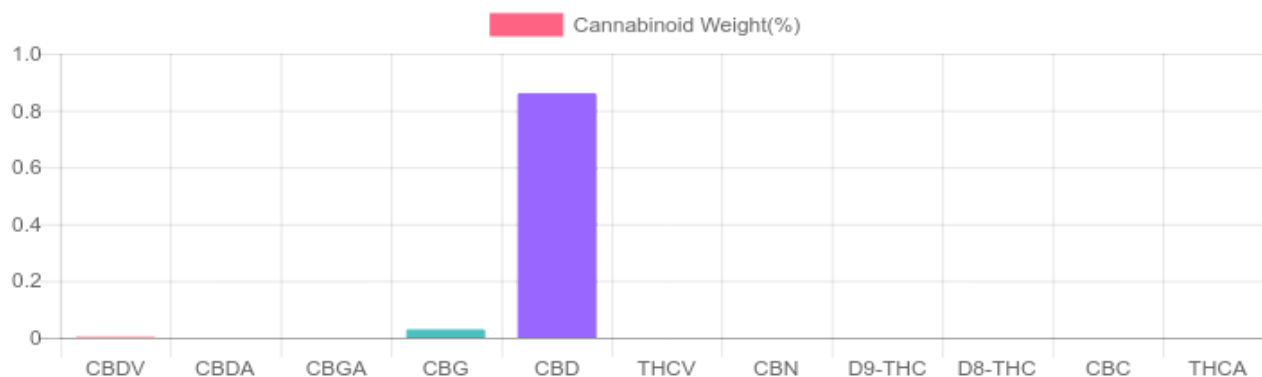
SHIMADZU INTEGRATED UPLC-PDA

GSL SOP 400

PREPARED: 12/23/2019 11:57:57

UPLOADED: 12/23/2019 18:05:46

Cannabinoids	LOQ	weight(%)	mg/g	mg/bottle
D9-THC	10 PPM	N/D	N/D	N/D
THCA	10 PPM	N/D	N/D	N/D
CBD	10 PPM	0.860%	8.596	257.9
CBDA	20 PPM	N/D	N/D	N/D
CBDV	20 PPM	0.002%	0.024	0.7
CBC	10 PPM	N/D	N/D	N/D
CBN	10 PPM	N/D	N/D	N/D
CBG	10 PPM	0.029%	0.290	8.7
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*		0.860%	8.596	257.9
TOTAL CANNABINOIDS		0.891%	8.910	267.3



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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Order #: 44693
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Received: 12/20/2019
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PESTICIDE ANALYSIS:

GSL SOP 401

PREPARED: 12/23/2019 15:47:09

UPLOADED: 12/26/2019 12:52:04

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 (ppm)	Results (ppm)	LOQ (ppm)	LOD (ppm)
FIPRONIL	0.010	N/D	0.003	0.001
FLUDIOXONIL	0.020	N/D	0.003	0.001
PENTACHLORONITROBENZENE	0.030	N/D	0.003	0.001

LCMS-MS - Shimadzu LCMS-8060

Pesticide	Action Level (ppm)	Results (ppm)	LOQ (ppm)	LOD (ppm)
ABAMECTIN B1A	0.020	N/D	0.005	0.001
ACEPHATE	0.020	N/D	0.001	0.001
ACEQUINOCYL	0.020	N/D	0.001	0.001
ACETAMIPRID	10.000	N/D	0.005	0.001
ALDICARB	0.010	N/D	0.005	0.001
AZOXYSTROBIN	0.100	N/D	0.001	0.001
BIFENAZATE	0.010	N/D	0.005	0.001
CHLORPYRIFOS	0.020	N/D	0.001	0.001
CLOFENTEZINE	0.040	N/D	0.001	0.001
DAMINOZIDE	0.010	N/D	0.005	0.001
DIAZANON	0.010	N/D	0.001	0.001
DICHLORVOS	0.020	N/D	0.005	0.001
DIMETHOATE	0.010	N/D	0.001	0.001
DIMETHOMORPH	0.010	N/D	0.005	0.001
ETHOPROPHOS	0.010	N/D	0.001	0.001
ETOFENPROX	0.010	N/D	0.001	0.001
ETOXAZOLE	0.010	N/D	0.010	0.005
FENHEXAMID	0.080	N/D	0.005	0.001
FENOXYCARB	0.010	N/D	0.005	0.001
FENPYROXIMATE	0.100	N/D	0.001	0.001
FLONICAMID	0.100	N/D	0.025	0.010
HEXYTHIAZOX	0.100	N/D	0.005	0.001
IMAZALIL	0.010	N/D	0.005	0.001
IMIDACLOPRID	0.020	N/D	0.005	0.001
KRESOXIM-METHYL	0.020	N/D	0.010	0.005
MALATHION	0.010	N/D	0.005	0.001

Pesticide	Action Level (ppm)	Results (ppm)	LOQ (ppm)	LOD (ppm)
METALAXYL	0.010	N/D	0.001	0.001
METHIOCARB	0.010	N/D	0.005	0.001
METHOMYL	0.010	N/D	0.001	0.001
MEVINPHOS	0.010	N/D	0.001	0.001
MYCLOBUTANIL	0.020	N/D	0.005	0.001
NALED	0.010	N/D	0.005	0.001
OXAMYL	0.026	N/D	0.001	0.001
PACLOBUTRAZOL	0.010	N/D	0.005	0.001
PERMETHRINS	0.020	N/D	0.005	0.001
PHOSMET	0.020	N/D	0.005	0.001
PIPERONYL BUTOXIDE	3.000	N/D	0.001	0.001
PRALLETHRIN	0.020	N/D	0.005	0.005
PROPICONAZOLE	0.020	N/D	0.010	0.005
PROPOXUR	0.020	N/D	0.001	0.001
PYRETHRINS (PYRETHRIN I)	0.500	N/D	0.005	0.005
PYRIDABEN	0.020	N/D	0.005	0.001
SPINETORAM	0.040	N/D	0.001	0.001
SPINOSAD (SPINOSYN A)	0.020	N/D	0.001	0.001
SPINOSAD (SPINOSYN D)	0.020	N/D	0.001	0.001
SPIROMESIFEN	0.030	N/D	0.005	0.001
SPIROTETRAMAT	0.020	N/D	0.001	0.001
SPIROXAMINE	0.010	N/D	0.001	0.001
TEBUCONAZOLE	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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Batch#: 4
Received: 12/20/2019
Completed: 12/27/2019



Microbial Analysis:

Microbial Analysis GSL SOP 406

Uploaded: 12/26/2019 13:06:58

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

† 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

*** Flavus = 2 Copies of DNA / Fumigatis = 2 Copies of DNA Niger = 20 Copies of DNA / Terrus = 10 copies of DNA

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191216A
Batch#: 4
Received: 12/20/2019
Completed: 12/27/2019



Heavy Metals Analysis:

ICP-MS - Shimadzu ICPMS-2030
GSL SOP 403

Uploaded: 12/23/2019 20:16:47

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

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

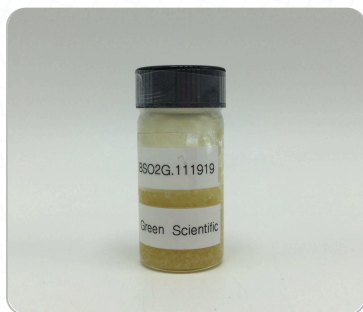
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Order #: 42031
Order Name: BSO2G.111919
Batch #: BSO2G.111919
Complete: 11/25/2019



N/D

D9-THC

86.46%

Total CBD

Delta-9-Tetrahydrocannabinol	0%
Tetrahydrocannabinolic Acid	0%
Cannabidiol	87%
Cannabidiolic Acid	0%
Cannabidivarin	1%
Cannabichromene	1%
Cannabinol	0%
Cannabigerol	4%
Cannabigerolic Acid	0%
Delta-8-Tetrahydrocannabinol	0%
Tetrahydrocannabivarin	0%

Cannabinoids

	LOQ	weight(%)	mg/g
D9-THC	< 0.05%	N/D	N/D
THCA	< 0.05%	N/D	N/D
CBD	< 0.05%	< 86.46%	< 864.57
CBDA	< 0.01%	N/D	N/D
CBDV	< 0.01%	< 0.37%	< 3.67
CBC	< 0.01%	< 0.01%	< 0.07
CBN	< 0.01%	N/D	N/D
CBG	< 0.01%	< 3.34%	< 33.36
CBGA	< 0.01%	N/D	N/D
D8-THC	< 0.05%	N/D	N/D
THCV	< 0.05%	N/D	N/D
TOTAL D9-THC	N/A	< N/D	< N/D
TOTAL CBD*	N/A	< 86.46%	< 864.57
TOTAL CANNABINOIDS	N/A	< 90.18%	< 901.67

Metal

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

Limit of Quantitation (LOQ) is 85 ppb

Residual Solvents

Solvent Name	Action Level	Results	LOQ
ACETONE	5,000	N/D	280
ACETONITRILE	410	N/D	50
BENZENE	1	N/D	1
BUTANE	5,000	N/D	100
CHLOROFORM	1	N/D	1
DICHLOROETHANE	1	N/D	1
DICHLOROMETHANE	1	N/D	1
ETHANOL	5,000	N/D	280
ETHYL ACETATE	5,000	N/D	280
ETHYL ETHER	5,000	N/D	280

Solvent Name	Action Level	Results	LOQ
ISOPROPYL ALCOHOL	5,000	N/D	280
METHANOL	3,000	N/D	200
N-HEPTANE	5,000	N/D	280
N-HEXANE	290	N/D	36
PENTANE	5,000	N/D	280
PROPANE	5,000	N/D	40
TOLUENE	890	N/D	106
TRICHLOROETHENE	1	N/D	0
XYLENES	2,170	N/D	260

Pesticide

Pesticide Name	Action Level	Results	LOQ
ABAMECTIN B1A	0.100	N/D	0.02
ACEPHATE	0.100	N/D	0.004
ACEQUINOCYL	0.100	N/D	0.004
ACETAMIPRID	0.100	N/D	0.02
ALDICARB	0.100	N/D	0.02
AZOXYSTROBIN	0.100	N/D	0.004
BIFENAZATE	0.100	N/D	0.02
BIFENTHRIN	3.000	N/D	0.02
BOSCALID	0.100	N/D	0.02
CARBARYL	0.500	N/D	0.012
CARBOFURAN	0.100	N/D	0.004
CHLORANTRANILIPROLE	10.000	N/D	0.02
CHLORPYRIFOS	0.100	N/D	0.004
CLOFENTEZINE	0.100	N/D	0.004
DAMINOZIDE	0.100	N/D	0.02
DIAZANON	0.100	N/D	0.004
DICHLORVOS	0.100	N/D	0.02
DIMETHOATE	0.100	N/D	0.004
DIMETHOMORPH	2.000	N/D	0.02

Pesticide Name	Action Level	Results	LOQ
ETHOPROPHOS	0.100	N/D	0.004
ETOFENPROX	0.100	N/D	0.004
ETOXAZOLE	0.100	N/D	0.04
FENHEXAMID	0.100	N/D	0.02
FENOXYCARB	0.100	N/D	0.02
FENPYROXIMATE	0.100	N/D	0.004
FIPRONIL	0.100	N/D	0.012
FLONICAMID	0.100	N/D	0.05
FLUDIOXONIL	0.100	N/D	0.012
HEXYTHIAZOX	0.100	N/D	0.02
IMAZALIL	0.100	N/D	0.02
IMIDACLOPRID	5.000	N/D	0.02
KRESOXIM-METHYL	0.100	N/D	0.04
MALATHION	0.500	N/D	0.02
METALAXYL	2.000	N/D	0.004
METHIOCARB	0.100	N/D	0.02
METHOMYL	1.000	N/D	0.004
MEVINPHOS	0.100	N/D	0.004
MYCLOBUTANIL	0.100	N/D	0.02

Pesticide Name	Action Level	Results	LOQ
NALED	0.100	N/D	0.02
OXAMYL	0.500	N/D	0.004
PACLOBUTRAZOL	0.100	N/D	0.02
PERMETHRINS	0.500	N/D	0.02
PHOSMET	0.100	N/D	0.02
PRALLETHRIN	0.100	N/D	0.02
PROPICONAZOLE	0.100	N/D	0.04
PROPOXUR	0.100	N/D	0.004
PYRETHRINS (PYRETHRIN I)	0.500	N/D	0.02
PYRIDABEN	0.100	N/D	0.02
SPINETORAM	0.100	N/D	0.004
SPINOSAD	0.100	N/D	0.004
SPIROMESIFEN	0.100	N/D	0.02
SPIROTETRAMAT	0.100	N/D	0.004
SPIROXAMINE	0.100	N/D	0.004
TEBUCONAZOLE	0.100	N/D	0.02
THIACLOPRID	0.100	N/D	0.004
THIAMETHOXAM	5.000	N/D	0.004
TRIFLOXYSTROBIN	0.100	N/D	0.004

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