

CERTIFICATE OF ANALYSIS



Order #: 33927
Order Name: Phytologica FS
 1500mg Tincture
Batch#: MRV012919T3
Received: 07/26/2019
Completed: 07/30/2019

Salus Nutraceuticals
 233 Mt. Airy Rd. Suite 100
 Basking Ridge NJ, 07920
 (800) 961-9550
 contact@phytologica.com



Sample



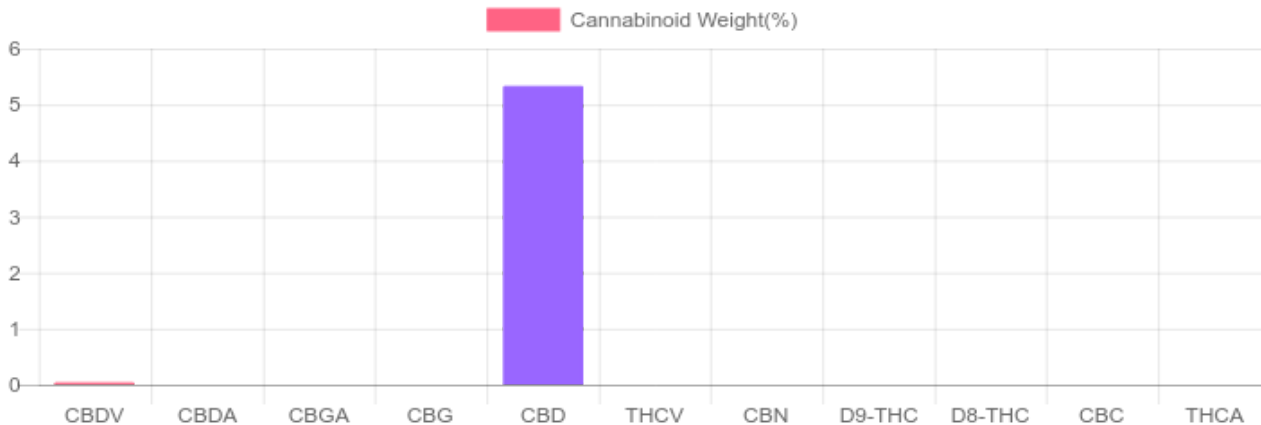
N/D D9-THC	5.335% Total CBD
1,500.6 mg Cannabinoids per tincture	1,488.5 mg CBD per tincture

Cannabinoids Test

SHIMADZU INTEGRATED UPLC-PDA
 GSL SOP 400 **PREPARED:** 07/26/2019 21:49:28 **UPLOADED:** 07/29/2019 20:19:03

Cannabinoids	LOQ	weight(%)	mg/g	mg/tincture
D9-THC	10 PPM	N/D	N/D	N/D
THCA	10 PPM	N/D	N/D	N/D
CBD	10 PPM	5.335%	53.350	1,488.5
CBDA	20 PPM	N/D	N/D	N/D
CBDV	20 PPM	0.043%	0.434	12.1
CBC	10 PPM	N/D	N/D	N/D
CBN	10 PPM	N/D	N/D	N/D
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		N/D	N/D	N/D
TOTAL CBD*		5.335%	53.350	1,488.5
TOTAL CANNABINOIDS		5.378%	53.784	1,500.6

1 tincture = 30 ml per tincture x density (0.93) 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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TERPENES: TOTAL (0.309%)

Headspace GCMS - Shimadzu GCMS QP2020 with HS20

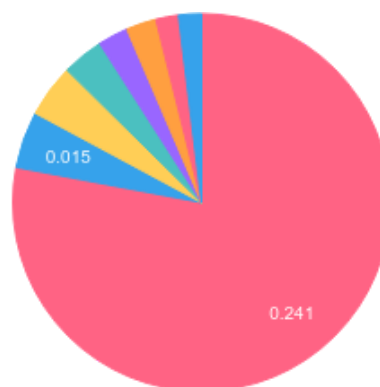
GSL SOP 404

Prepared: 07/26/2019 22:15:28

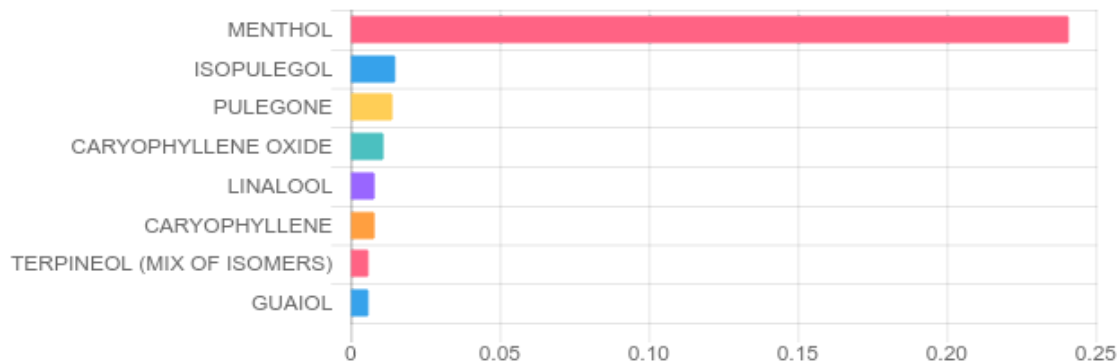
Uploaded: 07/29/2019 16:08:59

Terpene	Results (%)	LOQ (%)	LOD (%)
CARYOPHYLLENE	0.008%	0.0067%	0.0063%
CARYOPHYLLENE OXIDE	0.011%	0.0067%	0.0063%
GUAIOL	B/LOQ	0.0067%	0.0063%
ISOPULEGOL	0.015%	0.0067%	0.0063%
LINALOOL	0.008%	0.0067%	0.0063%
MENTHOL	0.241%	0.0067%	0.0063%
PULEGONE	0.014%	0.0067%	0.0063%
TERPINEOL (MIX OF ISOMERS)	B/LOQ	0.0067%	0.0063%

Terpenes Breakdown



Top Terpenes Results:



Tested for but not present:

ALPHA-PINENE, CAMPHENE, SABINENE, BETA-MYRCENE, BETA-PINENE, ALPHA-PHELLANDRENE, 3-CARENE, ALPHA-TERPINENE, TRANS-BETA-OCIMENE, LIMONENE, CIS-BETA-OCIMENE, EUCALYPTOL, GAMMA-TERPINENE, TERPINOLENE, SABINENE HYDRATE, FENCHONE, FENCHOL, CAMPHOR, ISOBORNEOL, BORNEOL, GAMMA-TERPINEOL, NEROL, GERANIOL, GERANYL ACETATE, ALPHA-CEDRENE, HUMULENE, VALENCENE, CIS-NEROLIDOL, TRANS-NEROLIDOL, CEDROL, ALPHA-BISABOLOL



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PESTICIDE ANALYSIS:

GSL SOP 401

PREPARED: 07/26/2019 22:47:10

UPLOADED: 07/29/2019 20:43:57

GCMS-MS - Shimadzu GCMS-TQ8040

Pesticide	Action Level (ppm)	Results (ppm)	LOQ (ppm)	LOD (ppm)
CAPTAN	0.700	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	2.000	N/D	0.003	0.001
CYPERMETHRIN	1.000	N/D	0.003	0.001
PARATHION-METHYL	0.100	N/D	0.003	0.001
PENTACHLORONITROBENZENE	0.100	N/D	0.003	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: 07/26/2019 21:56:38

Uploaded: 07/29/2019 15:43:19

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	0	N/D	0	0
XYLENES	2,170	N/D	130	20



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Heavy Metals Analysis:

ICP-MS - Shimadzu ICPMS-2030
GSL SOP 403

Uploaded: 07/30/2019 13:22:37

Metal	Action Level (ppb)	Result (ppb)
ARSENIC (AS)	200	0
CADMIUM (CD)	200	0
MERCURY (HG)	100	0
LEAD (PB)	500	0

Lower Limit of Quantitation (LOQ) is 75 ppb

Microbial Analysis:

Microbial Analysis GSL SOP 406

Uploaded: 07/28/2019 17:17:28

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
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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