

CERTIFICATE OF ANALYSIS

ISO/IEC 17025:2017 ACCREDITATION #103104

Order #: 97204
Order Name: Extra Strength Pain Relief Cream
Batch#: 2207XSC
Received: 07/11/2022
Completed: 07/15/2022

Sample



N/D Total D9-THC	0.993% Total CBD
12.4 mg Cannabinoids per unit	9.9 mg CBD per unit

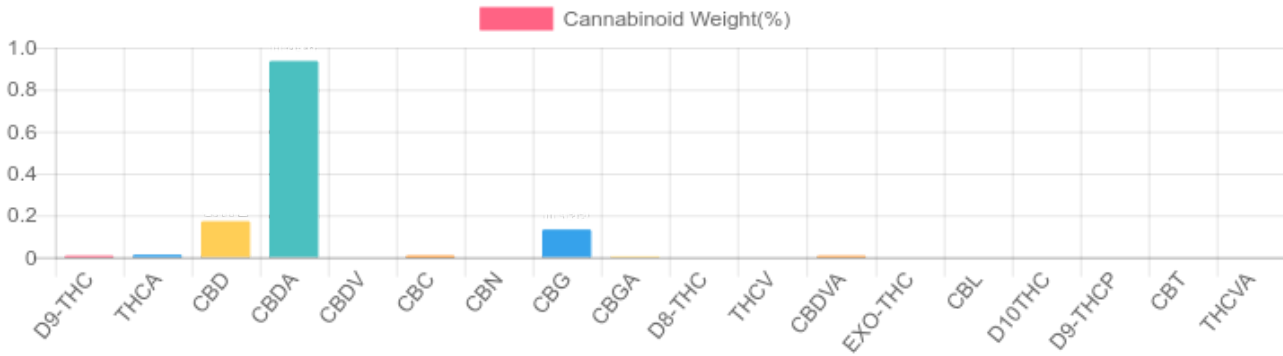
1 unit = 1 grams per unit x Cannabinoid concentration

Cannabinoids Test

HPLC-DAD
GSL SOP 400

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Cannabinoids	LOQ(mg/g)	LOD(mg/g)	weight(%)	mg/g	mg/unit
D9-THC	0.1954	0.0645	B/LOQ	B/LOQ	B/LOQ
THCA	0.1954	0.0645	B/LOQ	B/LOQ	B/LOQ
CBD	0.1954	0.0645	0.172%	1.724	1.724
CBDA	0.1954	0.0645	0.936%	9.363	9.363
CBDV	0.1954	0.0645	N/D	N/D	N/D
CBC	0.1954	0.0645	B/LOQ	B/LOQ	B/LOQ
CBN	0.1954	0.0645	N/D	N/D	N/D
CBG	0.1954	0.0645	0.132%	1.321	1.321
CBGA	0.1954	0.0645	N/D	N/D	N/D
D8-THC	0.1954	0.0645	N/D	N/D	N/D
THCV	0.1954	0.0645	N/D	N/D	N/D
CBDVA	0.1954	0.0645	B/LOQ	B/LOQ	B/LOQ
EXO-THC	0.1954	0.0645	N/D	N/D	N/D
CBL	0.1954	0.0645	N/D	N/D	N/D
D10THC	0.1954	0.0645	N/D	N/D	N/D
D9-THCP	0.1954	0.0645	N/D	N/D	N/D
CBT	0.1954	0.0645	N/D	N/D	N/D
THCVA	0.1954	0.0645	N/D	N/D	N/D
TOTAL D9-THC			N/D	N/D	N/D
TOTAL CBD*			0.993%	9.935	9.9
TOTAL CANNABINOIDS			1.240%	12.408	12.4



*Total CBD = CBD + CBDA x 0.877
 N/D - Not Detected, B/LOQ - Below Limit of Quantification

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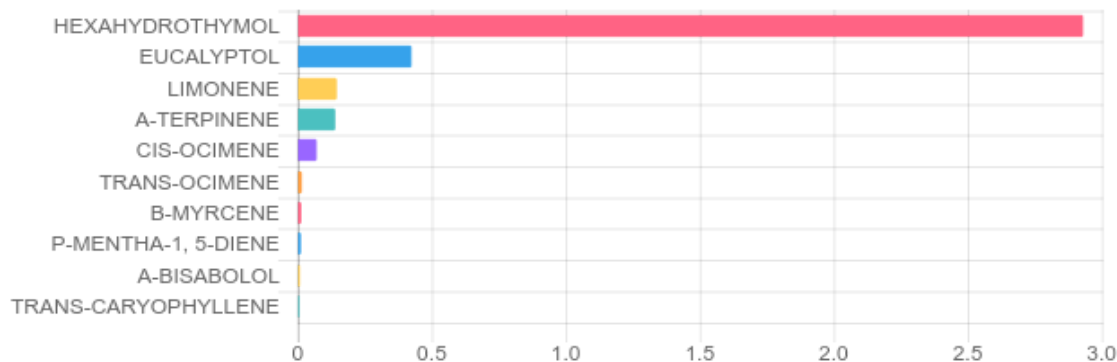
TERPENES: TOTAL (3.782%)

GSL SOP 404
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GC-FID

Terpene	Results (%)	LOQ (%)	LOD (%)	Terpene	Results (%)	LOQ (%)	LOD (%)
3-CARENE	B/LOQ	0.003%	0.001%	GERANIOL	N/D	0.003%	0.001%
A-BISABOLOL	0.009%	0.003%	0.001%	GERANYL ACETATE	N/D	0.003%	0.001%
A-CEDRENE	N/D	0.003%	0.001%	GUAJOL	N/D	0.003%	0.001%
A-HUMULENE	B/LOQ	0.003%	0.001%	HEXAHYDROTHYMOL	2.931%	0.003%	0.001%
A-PINENE	0.004%	0.003%	0.001%	ISOBORNEOL	N/D	0.003%	0.001%
A-TERPINENE	0.140%	0.003%	0.001%	ISOPULEGOL	0.004%	0.003%	0.001%
B-MYRCENE	0.013%	0.003%	0.001%	LIMONENE	0.146%	0.003%	0.001%
B-PINENE	B/LOQ	0.003%	0.001%	LINALOOL	N/D	0.003%	0.001%
BORNEOL (MIX OF ISOMERS)	N/D	0.003%	0.001%	NEROL	N/D	0.003%	0.001%
CAMPHENE	B/LOQ	0.003%	0.001%	P-MENTHA-1, 5-DIENE	0.012%	0.003%	0.001%
CAMPHOR (MIX OF ISOMERS)	N/D	0.003%	0.001%	PULEGONE (+)	N/D	0.003%	0.001%
CARYOPHYLLENE OXIDE	N/D	0.003%	0.001%	SABINENE HYDRATE	N/D	0.003%	0.001%
CEDROL	N/D	0.003%	0.001%	TERPINEOL (MIX OF ISOMERS)	0.005%	0.003%	0.001%
CIS-NEROLIDOL	N/D	0.003%	0.001%	TERPINOLENE	N/D	0.003%	0.001%
CIS-OCIMENE	0.071%	0.003%	0.001%	TRANS-CARYOPHYLLENE	0.006%	0.003%	0.001%
ENDO-FENCHYL ALCOHOL	N/D	0.003%	0.001%	TRANS-NEROLIDOL	N/D	0.003%	0.001%
EUCALYPTOL	0.425%	0.003%	0.001%	TRANS-OCIMENE	0.016%	0.003%	0.001%
FENCHONE (MIX OF ISOMERS)	N/D	0.003%	0.001%	VALENCENE	N/D	0.003%	0.001%
GAMMA-TERPINENE	N/D	0.003%	0.001%				

Top Terpenes Results:



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PESTICIDE ANALYSIS:

GSL SOP 401

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GC-MS/MS

Pesticide	Action Level (ppm)	Results (ppm)	LOQ (ppm)	LOD (ppm)
CAPTAN	0.700	N/D	0.100	0.010
CHLORDANE	0.100	N/D	0.100	0.010
CHLORFENAPYR	0.100	N/D	0.100	0.010
COUMAPHOS	0.100	N/D	0.100	0.010

Pesticide	Action Level (ppm)	Results (ppm)	LOQ (ppm)	LOD (ppm)
CYFLUTHRIN	2.000	N/D	0.100	0.010
CYPERMETHRIN	1.000	N/D	0.100	0.010
PARATHION-METHYL	0.100	N/D	0.100	0.010
PENTACHLORONITROBENZENE	0.100	N/D	0.100	0.010

LC-MS/MS

Pesticide	Action Level (ppm)	Results (ppm)	LOQ (ppm)	LOD (ppm)
ABAMECTIN B1A	0.100	N/D	0.035	0.002
ACEPHATE	0.100	N/D	0.040	0.002
ACEQUINOCYL	0.100	N/D	0.002	0.002
ACETAMIPRID	0.100	N/D	0.002	0.002
ALDICARB	0.100	N/D	0.010	0.002
AZOXYSTROBIN	0.100	N/D	0.040	0.002
BIFENAZATE	0.100	N/D	0.002	0.002
BIFENTHRIN	3.000	N/D	0.002	0.002
BOSCALID	0.100	N/D	0.050	0.010
CARBARYL	0.500	N/D	0.004	0.002
CARBOFURAN	0.100	N/D	0.010	0.002
CHLORANTRANILIPROLE	10.000	N/D	0.010	0.002
CHLORPYRIFOS	0.100	B/LOQ	0.010	0.002
CLOFENTEZINE	0.100	N/D	0.002	0.002
DAMINOZIDE	0.100	N/D	0.040	0.010
DIAZINON	0.100	N/D	0.010	0.002
DICHLORVOS	0.100	N/D	0.040	0.002
DIMETHOATE	0.100	N/D	0.002	0.002
DIMETHOMORPH	2.000	N/D	0.002	0.001
ETHOPROPHOS	0.100	N/D	0.010	0.002
ETOFENPROX	0.100	N/D	0.002	0.002
ETOXAZOLE	0.100	N/D	0.002	0.002
FENHEXAMID	0.100	N/D	0.040	0.010
FENOXYCARB	0.100	N/D	0.004	0.002
FENPYROXIMATE	0.100	N/D	0.002	0.002
FIPRONIL	0.100	N/D	0.004	0.002
FLONICAMID	0.100	N/D	0.010	0.002
FLUDIOXONIL	0.100	N/D	0.004	0.002
HEXYTHIAZOX	0.100	N/D	0.004	0.002

Pesticide	Action Level (ppm)	Results (ppm)	LOQ (ppm)	LOD (ppm)
IMAZALIL	0.100	N/D	0.010	0.002
IMIDACLOPRID	5.000	N/D	0.002	0.002
KRESOXIM-METHYL	0.100	N/D	0.002	0.002
MALATHION	0.500	N/D	0.040	0.010
METALAXYL	2.000	N/D	0.004	0.002
METHIOCARB	0.100	N/D	0.010	0.002
METHOMYL	1.000	N/D	0.002	0.002
MEVINPHOS	0.100	N/D	0.036	0.009
MYCLOBUTANIL	0.100	N/D	0.040	0.002
NALED	0.100	N/D	0.010	0.002
OXAMYL	0.500	N/D	0.002	0.002
PACLOBUTRAZOL	0.100	N/D	0.004	0.002
PERMETHRINS	0.500	N/D	0.010	0.002
PHOSMET	0.100	N/D	0.002	0.002
PIPERONYL	3.000	N/D	0.002	0.002
BUTOXIDE	0.100	N/D	0.010	0.002
PRALLETHRIN	0.100	N/D	0.040	0.002
PROPICONAZOLE	0.100	N/D	0.010	0.002
PROPOXUR	0.100	N/D	0.013	0.001
PYRETHRINS	0.500	N/D	0.002	0.002
PYRIDABEN	0.100	N/D	0.003	0.001
SPINETORAM	0.100	N/D	0.001	0.001
SPINOSAD	0.100	N/D	0.002	0.002
SPIROMESIFEN	0.100	N/D	0.010	0.002
SPIROTETRAMAT	0.100	N/D	0.040	0.002
SPIROXAMINE	0.100	N/D	0.040	0.010
TEBUCONAZOLE	0.100	N/D	0.002	0.002
THIACLOPRID	5.000	N/D	0.010	0.002
THIAMETHOXAM	0.100	N/D	0.002	0.002
TRIFLOXYSTROBIN	0.100	N/D	0.002	0.002

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:

HS-GC-MS

GSL SOP 405

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Residual Solvent	Action Level (ppm)	Results (ppm)	LOQ (ppm)	LOD (ppm)
1,1-DICHLOROETHENE	8	N/D	0.63	0.6
1,2-DICHLOROETHANE	2	N/D	0.12	0.04
1,2-DICHLOROETHENE	5	N/D	0.73	0.09
ACETONE	5,000	N/D	140	75
ACETONITRILE	410	B/LOQ	25	6
BENZENE	1	N/D	1	0.6
BUTANE	5,000	N/D	50	48
CHLOROFORM	1	N/D	1	0.5
ETHANOL	5,000	187	140	47
ETHYL ACETATE	5,000	N/D	140	40
ETHYL ETHER	5,000	N/D	140	50
ETHYLENE OXIDE	1	N/D	2	0.6
ISOPROPYL ALCOHOL	5,000	658	140	50
METHANOL	3,000	B/LOQ	100	25
METHYLENE CHLORIDE	125	N/D	1.5	1.5
N-HEPTANE	5,000	N/D	140	6
N-HEXANE	290	N/D	18	6
PENTANE	5,000	N/D	140	75
PROPANE	5,000	N/D	30	30
TOLUENE	890	N/D	53	15
TRICHLOROETHENE	1	N/D	1	0.3
XYLENES	150	N/D	130	15



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Microbial Analysis:

Microbial Analysis GSL SOP 406

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MICROBIAL ANALYSIS:

Test	SOP	Test Method	Device Used	Allowable Criteria	Actual Result
ASPERGILLUS FUMIGATUS***	406	REAL-TIME PCR	ARIAMX PCR	< 1 CFU/G	NOT DETECTED
ASPERGILLUS NIGER***	406	REAL-TIME PCR	ARIAMX PCR	< 1 CFU/G	NOT DETECTED
ASPERGILLUS FLAVUS***	406	REAL-TIME PCR	ARIAMX PCR	< 1 CFU/G	NOT DETECTED
ASPERGILLUS TERREUS***	406	REAL-TIME PCR	ARIAMX PCR	< 1 CFU/G	NOT DETECTED
STEC E. COLI*	406	REAL-TIME PCR	ARIAMX PCR	< 1 CFU/G	NOT DETECTED
SALMONELLA*	406	REAL-TIME PCR	ARIAMX PCR	< 1 CFU/G	NOT DETECTED

* STEC and Salmonella run as Multiplex

** CFU/g Calculation based on MIP/Extract 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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Mycotoxin Analysis:

LC-MS/MS
GSL SOP 401

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Analyte	LOQ (ppb)	LOD (ppb)	Action Lvl (ppb)	Results (ppb)
AFLATOXIN B1	1	1	20	N/D
AFLATOXIN B2	1	1	20	N/D
AFLATOXIN G1	1	1	20	N/D
AFLATOXIN G2	1	1	20	N/D
OCHRATOXIN A	1	1	20	N/D

Heavy Metals Analysis:

ICP-MS
GSL SOP 403

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Metal	LOQ (ppb)	LOD (ppb)	Action Level (ppb)	Result (ppb)
ARSENIC (AS)	75	20	200	N/D
CADMIUM (CD)	75	20	200	N/D
MERCURY (HG)	75	20	100	N/D
LEAD (PB)	75	20	500	N/D

Water Activity:

Water Activity Meter

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Water

0.85

Filth and Foreign Materials Analysis:

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

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Pass: No Foreign Materials Detected



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