

# CERTIFICATE OF ANALYSIS



Order #: 33255  
 Order Name: Blue Raspberry  
 Water Soluble Hemp Extract  
 1000mg  
 Batch#: BRWS1000C190624  
 Received: 07/11/2019  
 Completed: 07/16/2019

Nature's Fusions, LLC  
 1405 West 820 North  
 Provo Utah, 84601  
 (801) 872-9500



## Sample



N/D  
D9-THC

3.356%  
Total CBD

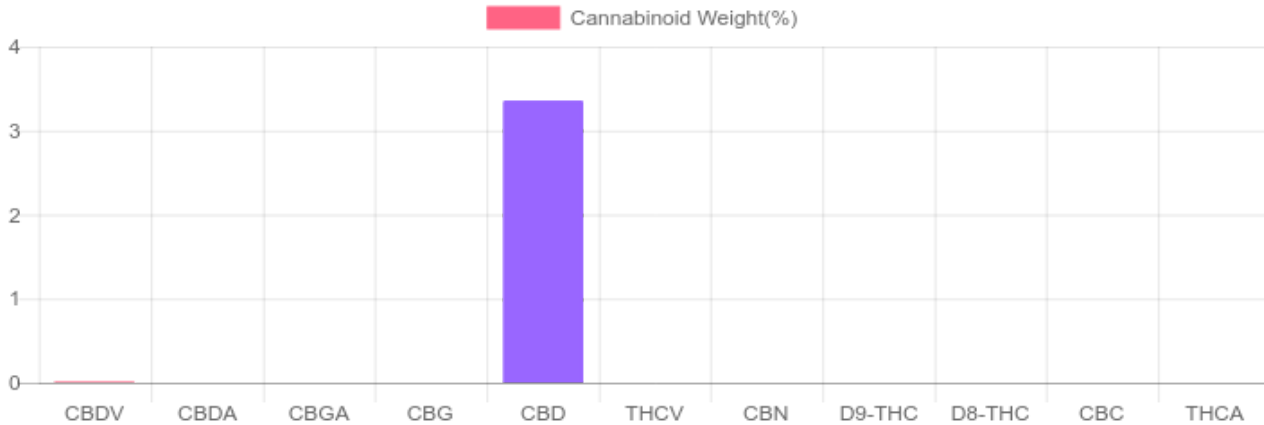
## Cannabinoids Test

SHIMADZU INTEGRATED UPLC-PDA  
 GSL SOP 400

PREPARED: 07/12/2019 20:29:02

UPLOADED: 07/15/2019 20:15:34

cannabinoids		LOQ	weight(%)	mg/g
DELTA-9-TETRAHYDROCANNABINOL	D9-THC	10 PPM	N/D	N/D
TETRAHYDROCANNABINOLIC ACID	THCA	10 PPM	N/D	N/D
CANNABIDIOL	CBD	10 PPM	3.356%	33.559
CANNABIDIOLIC ACID	CBDA	20 PPM	N/D	N/D
CANNABIDIVARIN	CBDV	20 PPM	0.013%	0.132
CANNABICHROMENE	CBC	10 PPM	N/D	N/D
CANNABINOL	CBN	10 PPM	N/D	N/D
CANNABIGEROL	CBG	10 PPM	N/D	N/D
CANNABIGEROLIC ACID	CBGA	20 PPM	N/D	N/D
DELTA-8-TETRAHYDROCANNABINOL	D8-THC	10 PPM	N/D	N/D
TETRAHYDROCANNABIVARIN	THCV	10 PPM	N/D	N/D
TOTAL D9-THC			N/D	N/D
TOTAL CBD*			3.356%	33.559
TOTAL CANNABINOIDS			3.369%	33.691



Reporting Limit 10 ppm

\*Total CBD = CBD + CBDA x 0.877

N/D - Not Detected, B/LOQ - Below Limit of Quantification

## Notes

1010.7mg cannabinoids per 30mL



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Dylan Swart, Lab Director

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## TERPENES: TOTAL (0.082%)

Headspace GCMS - Shimadzu GCMS QP2020 with HS20

GSL SOP 404  
 Prepared: 07/12/2019 22:00:57  
 Uploaded: 07/15/2019 18:16:32

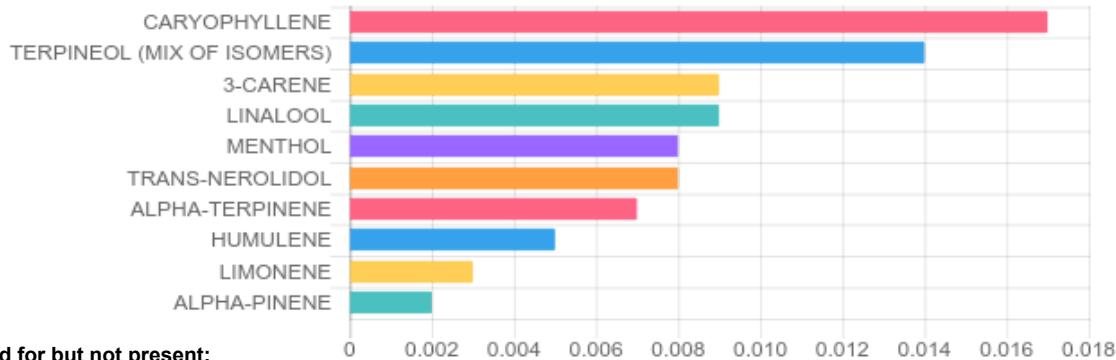
Terpene	Results (%)	LOQ (%)	LOD (%)
3-CARENE	0.009%	0.0067%	0.0063%
ALPHA-PINENE	B/LOQ	0.0067%	0.0063%
ALPHA-TERPINENE	0.007%	0.0067%	0.0063%
CARYOPHYLLENE	0.017%	0.0067%	0.0063%
HUMULENE	B/LOQ	0.0067%	0.0063%
LIMONENE	B/LOQ	0.0067%	0.0063%
LINALOOL	0.009%	0.0067%	0.0063%
MENTHOL	0.008%	0.0067%	0.0063%
TERPINEOL (MIX OF ISOMERS)	0.014%	0.0067%	0.0063%

Terpene	Results (%)	LOQ (%)	LOD (%)
TRANS-NEROLIDOL	0.008%	0.0067%	0.0063%

### Terpenes Breakdown



### Top Terpenes Results:



### Tested for but not present:

CAMPHENE, SABINENE, BETA-MYRCENE, BETA-PINENE, ALPHA-PHELLANDRENE, TRANS-BETA-OCIMENE, CIS-BETA-OCIMENE, EUCALYPTOL, GAMMA-TERPINENE, TERPINOLENE, SABINENE HYDRATE, FENCHONE, FENCHOL, ISOPULEGOL, CAMPHOR, ISOBORNEOL, BORNEOL, GAMMA-TERPINEOL, NEROL, GERANIOL, PULEGONE, GERANYL ACETATE, ALPHA-CEDRENE, VALENCENE, CIS-NEROLIDOL, GUAJOL, CARYOPHYLLENE OXIDE, CEDROL, ALPHA-BISABOLOL



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## PESTICIDE ANALYSIS:

GSL SOP 401

PREPARED: 07/12/2019 22:50:15

UPLOADED: 07/15/2019 22:51:14

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

LCMS-MS - Shimadzu LCMS-8060

Pesticide	Action Level (ppm)	Results (ppm)	LOQ (ppm)	LOD (ppm)
ABAMECTIN B1A	0.100	N/D	0.005	0.001
ACEPHATE	0.100	N/D	0.001	0.001
ACEQUINOCYL	0.100	N/D	0.001	0.001
ACETAMIPRID	0.100	N/D	0.005	0.001
ALDICARB	0.100	N/D	0.005	0.001
AZOXYSTROBIN	0.100	N/D	0.001	0.001
BIFENAZATE	0.100	N/D	0.005	0.001
BIFENTHRIN	3.000	N/D	0.005	0.001
BOSCALID	0.100	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	10.000	N/D	0.005	0.005
CHLORPYRIFOS	0.100	N/D	0.001	0.001
CLOFENTEZINE	0.100	N/D	0.001	0.001
DAMINOZIDE	0.100	N/D	0.005	0.001
DIAZANON	0.100	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	2.000	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	0.100	N/D	0.010	0.005
FENHEXAMID	0.100	N/D	0.005	0.001
FENOXYCARB	0.100	N/D	0.005	0.001
FENPYROXIMATE	0.100	N/D	0.001	0.001
FIPRONIL	0.100	N/D	0.003	0.001
FLONICAMID	0.100	N/D	0.025	0.010
FLUDIOXONIL	0.100	N/D	0.003	0.001
HEXYTHIAZOX	0.100	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	5.000	N/D	0.005	0.001
KRESOXIM-METHYL	0.100	N/D	0.010	0.005
MALATHION	0.500	N/D	0.005	0.001
METALAXYL	2.000	N/D	0.001	0.001
METHIOCARB	0.100	N/D	0.005	0.001
METHOMYL	1.000	N/D	0.001	0.001
MEVINPHOS	0.100	N/D	0.001	0.001
MYCLOBUTANIL	0.100	N/D	0.005	0.001
NALED	0.100	N/D	0.005	0.001
OXAMYL	0.500	N/D	0.001	0.001
PACLOBUTRAZOL	0.100	N/D	0.005	0.001
PERMETHRINS	0.500	N/D	0.005	0.001
PHOSMET	0.100	N/D	0.005	0.001
PIPERONYL BUTOXIDE	3.000	N/D	0.001	0.001
PRALLETHRIN	0.100	N/D	0.005	0.005
PROPICONAZOLE	0.100	N/D	0.010	0.005
PROPOXUR	0.100	N/D	0.001	0.001
PYRETHRINS (PYRETHRIN I)	0.500	N/D	0.005	0.005
PYRIDABEN	0.100	N/D	0.005	0.001
SPINETORAM	0.100	N/D	0.001	0.001
SPINOSAD	0.100	N/D	0.001	0.001
SPIROMESIFEN	0.100	N/D	0.005	0.001
SPIROTETRAMAT	0.100	N/D	0.001	0.001
SPIROXAMINE	0.100	N/D	0.001	0.001
TEBUCONAZOLE	0.100	N/D	0.005	0.001
THIACLOPRID	0.100	N/D	0.001	0.001
THIAMETHOXAM	5.000	N/D	0.001	0.001
TRIFLOXYSTROBIN	0.100	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: 07/12/2019 22:01:43

Uploaded: 07/15/2019 17:58:31

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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## Mycotoxin Analysis:

LC-MS - Shimadzu LCMS-8060  
GSL SOP 401

Uploaded: 07/15/2019 22:51:14

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 4ppb, LOD is 1ppb

## Microbial Analysis:

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
LISTERIA MONOCYTOGENES		ARIAMX PCR	2 COPIES OF DNA	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

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

## Water Activity:

HD-3A Water Activity Meter - GSL SOP 407

Uploaded: 07/12/2019 22:14:43

### Water

0.87

## Filth and Foreign Materials Analysis:

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

Uploaded: 07/15/2019 15:22:41

Pass: No Foreign Materials Detected



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