

CERTIFICATE OF ANALYSIS

ISO/IEC 17025:2017 ACCREDITATION #103104



Order#: 60365
 Order Name: NuCannaBiz Pain
 Freeze 100mg
 Batch#: LPF1
 Received: 05/11/2021
 Completed: 05/14/2021

NuCannaBiz
 730 Peachtree Street Suite 570
 Atlanta GA, 30308



Sample



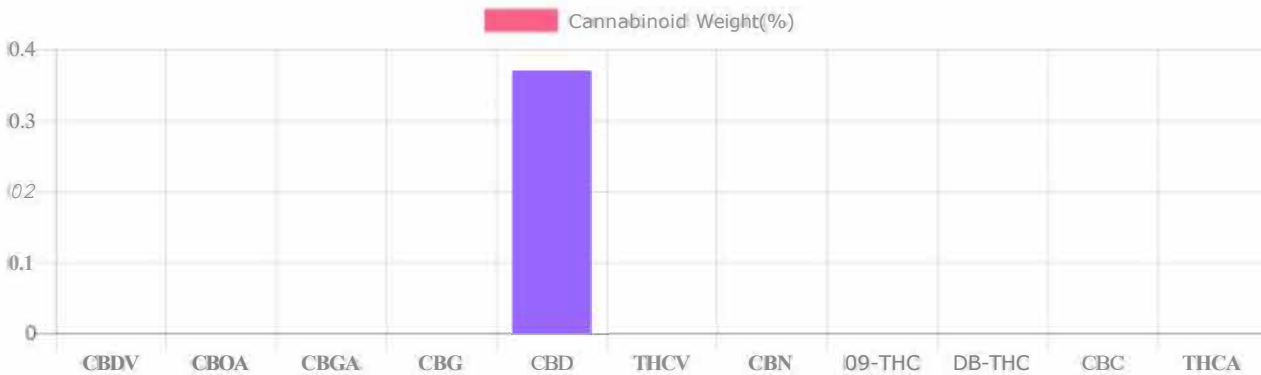
N/D D9-THC	0.37% Total CBD
103.0mg Cannabinoids per unit	103.0mg CBD per unit

Cannabinoids Test

SHIMADZU INTEGRATED UPLC-PDA
 GSL SOP400 PREPARED: 05/12/2021 17:37:00 UPLOADED: 05/13/2021 19:38:04

Cannabinoids	LOQ	weight(%)	mg/g	mg/unit
D9-THC	10 PPM	ND	ND	ND
THCA	10 PPM	ND	ND	ND
CBD	10 PPM	0.37%	3.68	103.0
CBDA	20 PPM	ND	ND	ND
CBDV	20 PPM	ND	ND	ND
CBC	10 PPM	ND	ND	ND
CBN	10 PPM	ND	ND	ND
CBG	10 PPM	ND	ND	ND
CBGA	20 PPM	ND	ND	ND
DB-THC	10 PPM	ND	ND	ND
THCV	10 PPM	ND	ND	ND
TOTAL D9-THC		ND	ND	ND
TOTAL CBD*		0.37%	3.68	103.0
TOTAL CANNABINOIDS		0.37%	3.68	103.0

1 unit= 28 grams per unit x Cannabinoid concentration



Reporting Limit 100 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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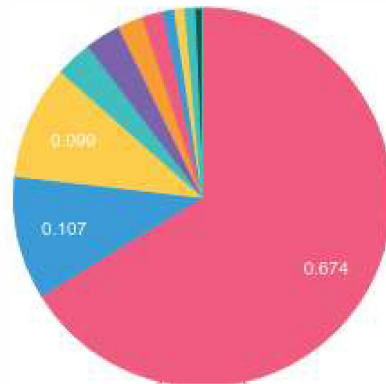
TERPENES: TOTAL (1.028%)

Headspace GCMS - Shimadzu GCMS QP2020 with HS20

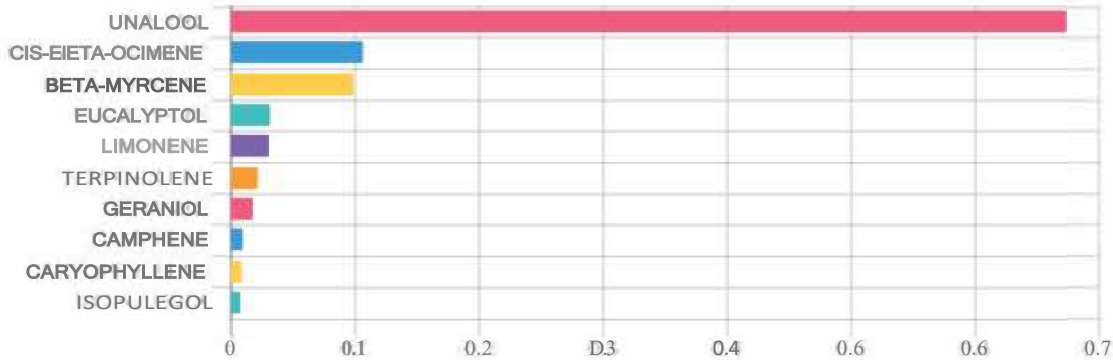
GSL SOP404
 Prepared: 05/12/2021 22:11:52
 Uploaded: 05/13/2021 15:11:59

Terpene	Results(%)	LOQ (%)	LOO(%)
ALPHA-PIN ENE	8/LOQ	0.0067%	0.0063%
ALPHA-TERPINENE	8/LOQ	0.0067%	0.0063%
BETA-MYRCENE	0.099%	0.0067%	0.0063%
BETA-PIN ENE	8/LOQ	0.0067%	0.0063%
CAMPHENE	0.010%	0.0067%	0.0063%
CARYOPHYLLENE	0.009%	0.0067%	0.0063%
CIS-BETA-OCIMENE	0.107%	0.0067%	0.0031%
EUCALYPTOL	0.032%	0.0067%	0.0063%
GAMMA-TERPINENE	0.007%	0.0067%	0.0016%
GERANIOL	0.018%	0.0067%	0.0063%
ISOPULEGOL	0.008%	0.0067%	0.0063%
LIMONENE	0.031%	0.0067%	0.0063%
LINALOOL	0.674%	0.0067%	0.0063%
TERPINOLENE	0.022%	0.0067%	0.0063%

Terpenes Breakdown



Top Terpenes Results:



Tested for but not present:

3-CARENE, TRANS-BETA-OCIMENE, P-CYMENE, HUMULENE, CIS-NEROLIDOL, TRANS-NEROLIDOL, GUAJOL, CARYOPHYLLENE OXIDE, ALPHA-BISABOLOL

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PESTICIDE ANALYSIS:

GSL SOP401

PREPARED: 05/12/2021 21:38:24

UPLOADED: 05/13/2021 15:12:05

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	ND	0.003	0.001
CHLORFENAPYR	0.100	ND	0.003	0.001
COUMAPHOS	0.100	ND	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	ND	0.003	0.001
PARATHION-METHYL	0.100	ND	0.003	0.001
PENTACHLORONITROBENZENE	0.100	ND	0.003	0.001

LCMS-MS - Shimadzu LCMS-8060

Pesticide	Action Level (ppm)	Results (ppm)	LOQ (ppm)	LOD (ppm)
ABAMECTIN 81A	0.100	ND	0.005	0.001
ACEPHATE	0.100	ND	0.001	0.001
ACEQUINOCYL	0.100	ND	0.001	0.001
ACETAMIPRID	0.100	ND	0.005	0.001
ALDICARB	0.100	ND	0.005	0.001
AZOXYSTROBIN	0.100	ND	0.001	0.001
BIFENAZATE	0.100	ND	0.005	0.001
BIFENTHRIN	3.000	ND	0.005	0.001
BOSCALID	0.100	ND	0.005	0.001
CARBARYL	0.500	ND	0.003	0.001
CARBOFURAN	0.100	ND	0.001	0.001
CHLORANTRANILIPROLE	10.000	ND	0.005	0.005
CHLORPYRIFOS	0.100	ND	0.001	0.001
CLOFENTEZINE	0.100	ND	0.001	0.001
DAMINOZIDE	0.100	ND	0.005	0.001
DIAZINON	0.100	ND	0.001	0.001
DICHLORVOS	0.100	ND	0.005	0.001
DIMETHOATE	0.100	ND	0.001	0.001
DIMETHOMORPH	2.000	ND	0.005	0.001
ETHOPROPHOS	0.100	ND	0.001	0.001
ETOFENPROX	0.100	ND	0.001	0.001
ETOXAZOLE	0.100	ND	0.010	0.005
FENHEXAMID	0.100	ND	0.005	0.001
FENOXYCARB	0.100	ND	0.005	0.001
FENPROXIMATE	0.100	ND	0.001	0.001
FIPRONIL	0.100	ND	0.003	0.001
FLONICAMID	0.100	ND	0.025	0.010
FLUDIOXONIL	0.100	ND	0.003	0.001
HEXYTHIAZOX	0.100	ND	0.005	0.001
IMAZALIL	0.100	ND	0.005	0.001

Pesticide	Action Level (ppm)	Results (ppm)	LOQ (ppm)	LOD (ppm)
IMIDACLOPRID	5.000	ND	0.005	0.001
KRESOXIM-METHYL	0.100	ND	0.010	0.005
MALATHION	0.500	ND	0.005	0.001
METALAXYL	2.000	ND	0.001	0.001
METHIOCARB	0.100	ND	0.005	0.001
METHOMYL	1.000	ND	0.001	0.001
MEVINPHOS	0.100	ND	0.001	0.001
MYCLOBUTANIL	0.100	ND	0.005	0.001
NALED	0.100	ND	0.005	0.001
OXAMYL	0.500	ND	0.001	0.001
PACLOBUTRAZOL	0.100	ND	0.005	0.001
PERMETHRINS	0.500	ND	0.005	0.001
PHOSMET	0.100	ND	0.005	0.001
PIPERONYL BUTOXIDE	3.000	ND	0.001	0.001
PRALLETHRIN	0.100	ND	0.005	0.005
PROPICONAZOLE	0.100	ND	0.010	0.005
PROPOXUR	0.100	ND	0.001	0.001
PYRETHRINS (PYRETHRIN I)	0.500	ND	0.005	0.005
PYRIDABEN	0.100	ND	0.005	0.001
SPINETORAM	0.100	ND	0.001	0.001
SPINOSAD	0.100	ND	0.001	0.001
SPIROMESIFEN	0.100	ND	0.005	0.001
SPIROTETRAMAT	0.100	ND	0.001	0.001
SPIROXAMINE	0.100	ND	0.001	0.001
TEBUCONAZOLE	0.100	ND	0.005	0.001
THIACLOPRID	0.100	ND	0.001	0.001
THIAMETHOXAM	5.000	ND	0.001	0.001
TRIFLOXYSTROBIN	0.100	ND	0.001	0.001

ND = Not Detected, ALCO = Above LOD Level, BLOO = Below LOD Level, BLOD = Below LOD Level

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RESIDUAL SOLVENTS:

Headspace GCMS - Shimadzu GCMS QP2020 with HS20

GSL SOP405
 Prepared: 05/12/2021 22:05:49
 Uploaded: 05/13/2021 17:29:48

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	0.18
ETHANOL	5,000	ND	140	20
ETHYL ACETATE	5,000	ND	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	0.18
TRICHLOROETHENE	1	ND	1	0.5
XYLENES	150	ND	130	20

Notes

ISOPROPYL ALCOHOL is part of the ingredients

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Microbial Analysis:

Microbial Analysis GSL SOP 406

PCR - Agilent AriaMX

Uploaded: 05/13/2021 15:18:13

MICROBIAL ANALYSIS:

PCR - Agilent AriaMX

Test	SOP	Test Method	Device Used	LOD	Allowable Criteria	Actual Result	Pass/Fail
ASPERGILLUS FUMIGATUS***	406.01	USP 61/62t	ARIAMXPCR	1 CFU/G**	DETECT/NOT DETECTED	NOT DETECTED	PASS
ASPERGILLUS TERREUS...	406.01	USP 61/62t	ARIAMXPCR	1 CFU/G**	DETECT/NOT DETECTED	NOT DETECTED	PASS
ASPERGILLUS FLAVUS***	406.01	USP 61/62t	ARIAMXPCR	1 CFU/G**	DETECT/NOT DETECTED	NOT DETECTED	PASS
ASPERGILLUS NIGER***	406.01	USP 61/62t	ARIAMXPCR	1 CFU/G**	DETECT/NOT DETECTED	NOT DETECTED	PASS
STEC E COLI*	406.01	USP 61/62t	ARIAMXPCR	1 CFU/G**	DETECT/NOT DETECTED	NOT DETECTED	PASS
SALMONELLA*	406.01	USP 61/62t	ARIAMXPCR	1 CFU/G**	DETECT/NOT DETECTED	NOT DETECTED	PASS
TOTAL YEAST AND MOLD	406.01	USP 61/62t	ARIAMXPCR	CFU/G BY SAMPLE TYPE**	10,000 CFU/G	NOT DETECTED	PASS
AEROBIC BACTERIA COUNT	406.01	USP 61/62t	ARIAMXPCR	CFU/G BY SAMPLE TYPE**	100,000 CFU/G	NOT DETECTED	PASS
ENTEROBACTERIACEAE	406.01	USP 61/62t	ARIAMXPCR	CFU/G BY SAMPLE TYPE**	1,000 CFU/G	NOT DETECTED	PASS
COLIFORM	406.01	USP 61/62t	ARIAMXPCR	CFU/G BY SAMPLE TYPE**	1,000 CFU/G	NOT DETECTED	PASS

t 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 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 - Shimadzu LCMS-8060
GSL SOP401

Uploaded: 05/13/2021 11:58:11

Analyte	Action Lvl (ppb)	Results (ppb)
AFLATOXIN 81	20	ND
AFLATOXIN 82	20	ND
AFLATOXIN G1	20	ND
AFLATOXIN G2	20	ND
OCHRATOXIN A	20	ND

LOQ is 1ppb, LOO is 1ppb

Moisture Analysis:

Shimadzu MOC63U Moisture Balance - GSL SOP 411

Uploaded: 05/13/2021 17:26:11

Moisture%

95.6%

Heavy Metals Analysis:

ICP-MS - Shimadzu ICPMS-2030
GSL SOP403

Uploaded: 05/13/2021 15:51:00

Metal	Action Level (ppb)	Result (ppb)
ARSENIC (AS)	200	8/LOQ
CADMIUM (CD)	200	8/LOQ
MERCURY (HG)	100	8/LOQ
LEAD (PB)	500	8/LOQ

Lower Limit of Quantitation (LOQ) is 75 ppb

Water Activity:

HD-3A Water Activity Meter - GSL SOP 407

Uploaded: 05/13/2021 17:42:32

Water

0.92

Filth and Foreign Materials Analysis:

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

Uploaded: 05/13/2021 21:53:06

Pass: No Foreign Materials Detected

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