

CERTIFICATE OF ANALYSIS

ISO/IEC 17025:2017 ACCREDITATION #103104



Order #: 35744
 Order Name: CBD Hemp Oil
 10mg
 Batch#: CHO905003
 Received: 09/05/2019
 Completed: 10/29/2019



Beyond Organic Nutritionals
 (417) 280-5375
 megii.qenani@beyondorganiconutritionals.com



Sample



N/D
D9-THC

1%
Total CBD

10.0 mg
Cannabinoids per serving

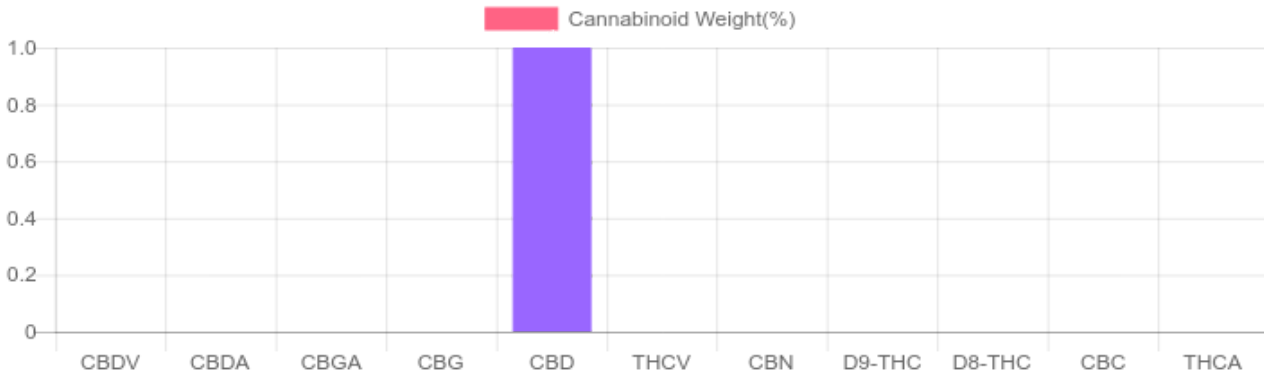
10.0 mg
CBD per serving

Cannabinoids Test

SHIMADZU INTEGRATED UPLC-PDA
 GSL SOP 400 **PREPARED:** 09/05/2019 15:29:35 **UPLOADED:** 09/06/2019 11:21:41

Cannabinoids	LOQ	weight(%)	mg/g	mg/serving
D9-THC	10 PPM	N/D	N/D	N/D
THCA	10 PPM	N/D	N/D	N/D
CBD	10 PPM	1%	11	10.0
CBDA	20 PPM	N/D	N/D	N/D
CBDV	20 PPM	N/D	N/D	N/D
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*		1%	11	10.0
TOTAL CANNABINOIDS		1%	11	10.0

1 serving = 1 ml per serving x density (0.91)
 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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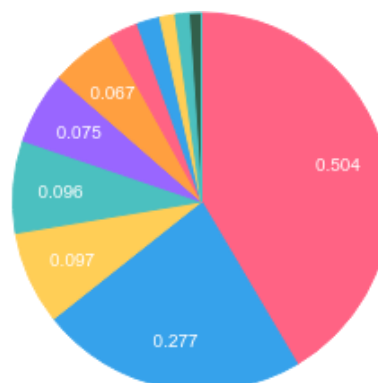
TERPENES: TOTAL (1.214%)

Headspace GCMS - Shimadzu GCMS QP2020 with HS20

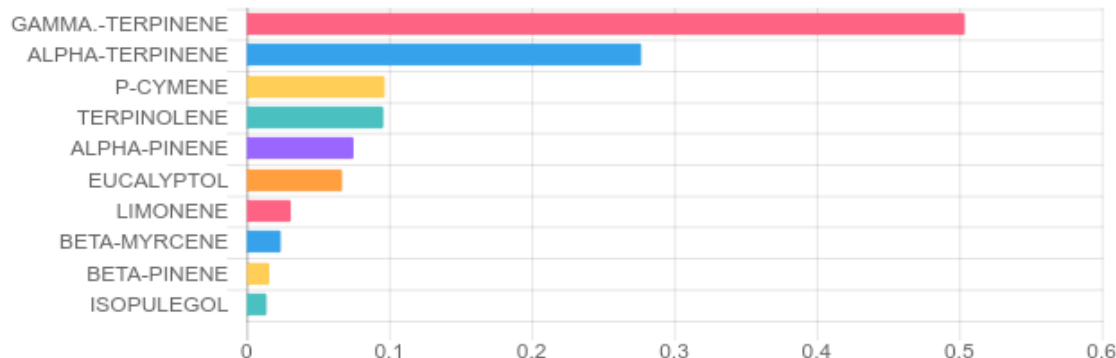
GSL SOP 404
 Prepared: 09/05/2019 20:07:05
 Uploaded: 09/09/2019 13:26:16

Terpene	Results (%)	LOQ (%)	LOD (%)
ALPHA-PINENE	0.075%	0.0067%	0.0063%
ALPHA-TERPINENE	0.277%	0.0067%	0.0063%
BETA-MYRCENE	0.024%	0.0067%	0.0063%
BETA-PINENE	0.016%	0.0067%	0.0063%
CARYOPHYLLENE	B/LOQ	0.0067%	0.0063%
EUCALYPTOL	0.067%	0.0067%	0.0063%
GAMMA.-TERPINENE	0.504%	0.0067%	0.0016%
ISOPULEGOL	0.014%	0.0067%	0.0063%
LIMONENE	0.031%	0.0067%	0.0063%
LINALOOL	0.008%	0.0067%	0.0063%
P-CYMENE	0.097%	0.0067%	0.0063%
TERPINOLENE	0.096%	0.0067%	0.0063%

Terpenes Breakdown



Top Terpenes Results:



Tested for but not present:

CAMPHENE, 3-CARENE, TRANS-BETA-OCIMENE, CIS-BETA-OCIMENE, GERANIOL, HUMULENE, CIS-NEROLIDOL, TRANS-NEROLIDOL, GUAIAL, CARYOPHYLLENE OXIDE, ALPHA-BISABOLOL



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PESTICIDE ANALYSIS:

GSL SOP 401

PREPARED: 09/05/2019 16:02:29

UPLOADED: 09/09/2019 15:00:00

LCMS-MS - Shimadzu LCMS-8060

Pesticide	Action Level (ppm)	Results (ppm)	LOQ (ppm)	LOD (ppm)	Pesticide	Action Level (ppm)	Results (ppm)	LOQ (ppm)	LOD (ppm)
ABAMECTIN B1A	0.500	N/D	0.005	0.001	IMAZALIL	0.200	N/D	0.005	0.001
ACEPHATE	0.400	N/D	0.001	0.001	IMIDACLOPRID	0.400	N/D	0.005	0.001
ACEQUINOCYL	2.000	N/D	0.001	0.001	KRESOXIM-METHYL	0.400	N/D	0.010	0.005
ACETAMIPRID	0.200	N/D	0.005	0.001	MALATHION	0.200	N/D	0.005	0.001
ALDICARB	0.400	N/D	0.005	0.001	METALAXYL	0.200	N/D	0.001	0.001
AZOXYSTROBIN	0.200	N/D	0.001	0.001	METHIOCARB	0.200	N/D	0.005	0.001
BIFENAZATE	0.200	N/D	0.005	0.001	METHOMYL	0.400	N/D	0.001	0.001
BIFENTHRIN	3.000	N/D	0.005	0.001	MYCLOBUTANIL	0.200	N/D	0.005	0.001
BOSCALID	0.400	N/D	0.005	0.001	NALED	0.500	N/D	0.005	0.001
CARBARYL	0.200	N/D	0.003	0.001	OXAMYL	1.000	N/D	0.001	0.001
CARBOFURAN	0.200	N/D	0.001	0.001	PACLOBUTRAZOL	0.400	N/D	0.005	0.001
CHLORANTRANILIPROLE	0.200	N/D	0.005	0.005	PERMETHRINS	0.200	N/D	0.005	0.001
CHLORPYRIFOS	0.200	0.003	0.001	0.001	PHOSMET	0.200	N/D	0.005	0.001
CLOFENTEZINE	0.200	N/D	0.001	0.001	PIPERONYL	2.000	N/D	0.001	0.001
DAMINOZIDE	1.000	N/D	0.005	0.001	BUTOXIDE	0.200	N/D	0.005	0.005
DIAZANON	0.200	N/D	0.001	0.001	PRALLETHRIN	0.400	N/D	0.010	0.005
DICHLORVOS	1.000	N/D	0.005	0.001	PROPICONAZOLE	0.200	N/D	0.001	0.001
DIMETHOATE	0.200	N/D	0.001	0.001	PROPOXUR	0.200	N/D	0.005	0.005
ETHOPROPHOS	0.200	N/D	0.001	0.001	PYRETHRINS	1.000	N/D	0.005	0.005
ETOFENPROX	0.400	N/D	0.001	0.001	(PYRETHRIN I)	0.200	N/D	0.005	0.001
ETOXAZOLE	0.200	N/D	0.010	0.005	PYRIDABEN	3.000	N/D	0.001	0.001
FENOXYCARB	0.200	N/D	0.005	0.001	SPINETORAM	0.200	N/D	0.001	0.001
FENPYROXIMATE	0.400	N/D	0.001	0.001	SPINOSAD	0.200	N/D	0.005	0.001
FIPRONIL	0.400	N/D	0.003	0.001	SPIROMESIFEN	0.200	N/D	0.001	0.001
FLONICAMID	1.000	N/D	0.025	0.010	SPIROTETRAMAT	0.400	N/D	0.001	0.001
FLUDIOXONIL	0.400	N/D	0.003	0.001	SPIROXAMINE	0.400	N/D	0.005	0.001
HEXYTHIAZOX	1.000	N/D	0.005	0.001	TEBUCONAZOLE	0.200	N/D	0.001	0.001
					THIACLOPRID	0.200	N/D	0.001	0.001
					THIAMETHOXAM	0.200	N/D	0.001	0.001
					TRIFLOXYSTROBIN	0.200	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: 09/05/2019 20:04:32

Uploaded: 09/06/2019 12:32:19

Residual Solvent	Action Level (ppm)	Results (ppm)	LOQ (ppm)	LOD (ppm)
ACETONE	5,000	B/LOQ	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	B/LOQ	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	B/LOQ	140	20
PROPANE	5,000	N/D	20	1
TOLUENE	890	B/LOQ	53	1
TRICHLOROETHENE	1	N/D	0	0
XYLENES	2,170	N/D	130	20



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Microbial Analysis:

Microbial Analysis GSL SOP 406

Uploaded: 09/09/2019 17:10:53

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
YEAST AND MOLD	USP 61/62†	ARIAMX PCR	363.05518 CFU/G**	100,000	BELOW THRESHOLD	PASS
TOTAL AEROBIC BACTERIA	USP 61/62†	ARIAMX PCR	0.25316 CFU/G**	10,000,000	BELOW THRESHOLD	PASS
STAPHYLOCOCCUS	USP 61/62†	ARIAMX PCR	STAPH = 5 COPIES OF DNA	PRESENCE / ABSENT	BELOW LOD	PASS

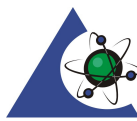
† USP 61 (enumeration of bacteria TAC, TYM, and ENT/Coliform), USP 62 (identifying specific species E.coli Aspergillus etc)

* STEC and Salmonella run as Multiplex

** CFU/g Calculation based on Select Category Type Gummy MIP/Extract Flower matrix



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Heavy Metals Analysis:

ICP-MS - Shimadzu ICPMS-2030
GSL SOP 403

Uploaded: 09/09/2019 17:43:08

Metal	Action Level (ppb)	Result (ppb)
ARSENIC (AS)	200	B/LOQ
CADMIUM (CD)	200	B/LOQ
MERCURY (HG)	200	B/LOQ
LEAD (PB)	600	B/LOQ

Lower Limit of Quantitation (LOQ) is 75 ppb



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