

**Balanced Health Botanicals
(BHB)**
1500 W. HAMPDEN AVE
SUITE 5H
ENGLEWOOD, CO 80110

Certificate of Analysis

ACS | CANNABIS & HEMP
LABORATORY | BEYOND COMPLIANCE

Order #: BAL200804-020008 Order Date: 2020-08-04 Collection Date: 2020-08-05 Report Date: 2020-08-18

Batch #: 1202035
Sample #: AAAK688
Specimen Type: CBD/HEMP Derivative Products (Ingestion)
Extracted From: HEMP
Description: RELIEF + RELAX 1000mg CBD OIL PER BOTTLE - FSO

Initial Gross Weight: 12.066 g
Method: SOP-3



Potency Tested	Terpenes Tested	Heavy Metals Passed
Mycotoxins Passed	Pesticides Passed	Residual Solvents Passed
Residual Solvents Passed	Water Activity Tested	Pathogenic Microbiology Passed
Microbiology (qPCR) Passed		



The photos on this report are of a sample collected by the lab and may vary from the final packaging.

Total CBD 3.589%	Total THC 0.133%	Total CBG 0.100%
Total CBN Not Detected	Other Cannabinoids 0.257%	Total Cannabinoids 4.078%

Potency - 11 (Tested)

(HPLC/LCMS)

Analyte	Result (mg/g)	(%)	LOQ (%)	Analyte	Result (mg/g)	(%)	LOQ (%)	Analyte	Result (mg/g)	(%)	LOQ (%)
CBC	1.934	0.193	0.001	CBD	35.890	3.589	0.001	CBDA	<LOQ		0.001
CBDV	0.632	0.063	0.001	CBG	0.996	0.100	0.001	CBGA	<LOQ		0.001
CBN	<LOQ		0.001	Delta-8 THC	<LOQ		0.001	Delta-9 THC	1.327	0.133	0.001
THCA-A	<LOQ		0.001	THCV	<LOQ		0.001	Total CBD	35.890	3.589	0.001
Total THC	1.327	0.133	0.001								

*Total CBD = CBD + (CBD-A * 0.877), *Total THC = THCA-A * 0.877 + Delta 9 THC, *CBG Total = (CBGA * 0.877) + CBG, *CBN Total = (CBNA * 0.877) + CBN, *Other Cannabinoids Total = CBC + CBDV + THCv + THCV-A, *Total Detected Cannabinoids = CBD Total + CBG Total + CBN Total + THC Total + CBC + CBDV + THCV + THCV-A (mg/g) = Milligram per Gram, , LOQ = Limit of Quantitation, , LOD = Limit of Detection

Xueli Gao
Ph.D., DABT

Lab Toxicologist

Aixia Sun
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Principal Scientist

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Terpenes - FL (Tested)

Analyte	Result (mg/g)	(%)	LOQ (%)
(+)-Cedrol	<LOQ		0.02
Alpha-Bisabolol	<LOQ		0.02
alpha-Phellandrene	<LOQ		0.02
Borneol	<LOQ		0.04
Caryophyllene oxide	<LOQ		0.02
Fenchyl Alcohol	<LOQ		0.02
Guaiol	<LOQ		0.02
Isopulegol	<LOQ		0.02
Ocimene	<LOQ		0.014
Sabinene Hydrate	<LOQ		0.02
trans-beta-Ocimene	<LOQ		0.006

(GC/GCMS)

Analyte	Result (mg/g)	(%)	LOQ (%)
(R)-(+)-Limonene	0.060	0.006	0.02
alpha-Cedrene	<LOQ		0.02
Alpha-Pinene	<LOQ		0.02
Beta-Myrcene	0.050	0.005	0.02
Camphene	<LOQ		0.02
cis-Nerolidol	<LOQ		0.02
Farnesene	<LOQ		0.02
Gamma-Terpinene	<LOQ		0.02
Hexahydrothymol	<LOQ		0.02
Linalool	<LOQ		0.02
Pulegone	<LOQ		0.02
Terpineol	<LOQ		0.02
Trans-Caryophyllene	<LOQ		0.02
3-Carene	<LOQ		0.02
alpha-Humulene	<LOQ		0.02
Alpha-Terpinene	<LOQ		0.02
Beta-Pinene	<LOQ		0.02
Camphors	<LOQ		0.04
Eucalyptol	<LOQ		0.02
Fenchone	<LOQ		0.02
Geraniol	<LOQ		0.02
Geranyl acetate	<LOQ		0.02
Isoborneol	<LOQ		0.02
Nerol	<LOQ		0.02
Sabinene	<LOQ		0.02
Terpinolene	<LOQ		0.02
trans-Nerolidol	<LOQ		0.02
Valencene	<LOQ		0.02

(mg/g) = Milligram per Gram, , LOQ = Limit of Quantitation

Heavy Metals (Passed)

Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)
Arsenic (As)	1500	<LOQ	100
Mercury (Hg)	3000	<LOQ	100
Cadmium (Cd)	500	<LOQ	100
Lead (Pb)	500	<LOQ	100

(ppb) = Parts per Billion, (ppb) = (µg/kg), , LOQ = Limit of Quantitation

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Mycotoxins (Passed)

(LCMS/API/GCMS)

Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)	Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)	Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)
Aflatoxin B1	20	<LOQ	6	Aflatoxin B2	20	<LOQ	6	Aflatoxin G1	20	<LOQ	6
Aflatoxin G2	20	<LOQ	6	Ochratoxin A	20	<LOQ	12				

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Pesticides FL V4 (Non-Inhalable) (Passed)

(LCMS/API/GCMS)

Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)	Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)	Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)
Abamectin	300	<LOQ	28.23	Acephate	3000	<LOQ	30	Acequinocyl	2000	<LOQ	48
Acetamiprid	3000	<LOQ	30	Aldicarb	100	<LOQ	30	Azoxystrobin	3000	<LOQ	10
Bifenazate	3000	<LOQ	30	Bifenthrin	500	<LOQ	30	Boscalid	3000	<LOQ	10
Captan	3000	<LOQ	30	Carbaryl	500	<LOQ	10	Carbofuran	100	<LOQ	10
Chlorantraniliprole	3000	<LOQ	10	Chlordane	100	<LOQ	10	Chlorfenapyr	100	<LOQ	30
Chloromequat Chloride	3000	<LOQ	10	Chlorpyrifos	100	<LOQ	30	Clofentezine	500	<LOQ	30
Cypermethrin	1000	<LOQ	30	Coumaphos	100	<LOQ	48	Cyfluthrin	1000	<LOQ	30
Dichlorvos	100	<LOQ	30	Daminozide	100	<LOQ	30	Diazinon	200	<LOQ	30
Ethoprophos	100	<LOQ	30	Dimethoate	100	<LOQ	30	Dimethomorph	3000	<LOQ	48
Fenhexamid	3000	<LOQ	10	Etofenprox	100	<LOQ	30	Etoxazole	1500	<LOQ	30
Fipronil	100	<LOQ	30	Fenoxycarb	100	<LOQ	30	Fenpyroximate	2000	<LOQ	30
Hexythiazox	2000	<LOQ	30	Fonicamid	2000	<LOQ	30	Fludioxonil	3000	<LOQ	48
Kresoxim Methyl	1000	<LOQ	30	Imazalil	100	<LOQ	30	Imidacloprid	3000	<LOQ	30
Methiocarb	100	<LOQ	30	Malathion	2000	<LOQ	30	Metalaxyl	3000	<LOQ	10
Mevinphos	100	<LOQ	10	Methomyl	100	<LOQ	30	methyl-Parathion	100	<LOQ	10
Oxamyl	500	<LOQ	30	Myclobutanil	3000	<LOQ	30	Naled	500	<LOQ	30
Permethrin	1000	<LOQ	30	Paclobutrazol	100	<LOQ	30	Pentachloronitrobenzene	200	<LOQ	10
Prallethrin	400	<LOQ	30	Phosmet	200	<LOQ	30	Piperonylbutoxide	3000	<LOQ	30
Pyrethrins	1000	<LOQ	30	Propiconazole	1000	<LOQ	30	Propoxur	100	<LOQ	30
Spinosad	3000	<LOQ	30	Pyridaben	3000	<LOQ	30	Spinetoram	3000	<LOQ	10
Spiroxamine	100	<LOQ	30	Spiromesifen	3000	<LOQ	30	Spirotetramat	3000	<LOQ	30
Thiamethoxam	1000	<LOQ	30	Tebuconazole	1000	<LOQ	30	Thiacloprid	100	<LOQ	30
				Trifloxystrobin	3000	<LOQ	30				

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Residual Solvents (CBD) (Passed)

(GC/GCMS)

Analyte	Action Level (ppm)	Result (ppm)	LOQ (ppm)	Analyte	Action Level (ppm)	Result (ppm)	LOQ (ppm)	Analyte	Action Level (ppm)	Result (ppm)	LOQ (ppm)
1,1-Dichloroethene	8	<LOQ	0.132	1,2-dichloroethane	5	<LOQ	0.032	Acetone	5000	<LOQ	12
Benzene	2	<LOQ	0.016	Butanes	2000	<LOQ	13.32	Acetonitrile	410	<LOQ	0.96
Ethanol	5000	<LOQ	16	Ethyl Acetate	5000	<LOQ	6.4	Chloroform	60	<LOQ	0.032
Ethylene Oxide	5	<LOQ	0.32	Heptane	5000	<LOQ	8	Ethyl Ether	5000	<LOQ	8
Hexane	290	<LOQ	0.8	Isopropyl alcohol	500	<LOQ	8	Heptane	5000	<LOQ	8
Methylene chloride	600	<LOQ	2	Pentane	5000	<LOQ	12	Methanol	3000	<LOQ	4
Trichloroethylene	80	<LOQ	0.4	Toluene	890	<LOQ	2.4	Propane	2100	<LOQ	26.668
								Total Xylenes	2170	<LOQ	7.2

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Residual Solvents (For UT Clients ONLY) (Passed)

(GC/GCMS)

Analyte	Action Level (ppm)	Result (ppm)	LOQ (ppm)	Analyte	Action Level (ppm)	Result (ppm)	LOQ (ppm)	Analyte	Action Level (ppm)	Result (ppm)	LOQ (ppm)
1,2-Dimethoxyethane	100	<LOQ	6.4	1,4-Dioxane	380	<LOQ	8	1-Butanol	5000	<LOQ	6.4
2,2-dimethylbutane	290	<LOQ	12	1-Pentanol	5000	<LOQ	0.32	1-Propanol	5000	<LOQ	8
2-methylbutane	5000	<LOQ	2	2,3-dimethylbutane	290	<LOQ	26.668	2-Butanol	5000	<LOQ	8
3-Methylpentane	290	<LOQ	2.4	2-Methylpentane	290	<LOQ	6.4	2-Ethoxyethanol	160	<LOQ	4
Benzene	2	<LOQ	0.016	Acetone	5000	<LOQ	12	2-Propanol (IPA)	5000	<LOQ	6.4
Cyclohexane	3880	<LOQ	0.032	Butane	5000	<LOQ	13.32	Acetonitrile	410	<LOQ	0.96
Ethanol	5000	<LOQ	16	Dichloromethane	600	<LOQ	0.8	Cumene	70	<LOQ	0.032
Ethylene glycol	620	<LOQ	6.4	Ethyl Acetate	5000	<LOQ	6.4	Dimethyl sulfoxide	5000	<LOQ	6.4
Heptane	5000	<LOQ	8	Ethylene Oxide	50	<LOQ	0.32	Ethyl Ether	5000	<LOQ	8
Methylpropane	5000	<LOQ	2	Isopropyl acetate	5000	<LOQ	8	Heptane	5000	<LOQ	8
n-Hexane	290	<LOQ	0.8	N,N-dimethylacetamide	1090	<LOQ	6.4	Methanol	3000	<LOQ	4
Pyridine	100	<LOQ	6.4	Pentane	5000	<LOQ	12	N,N-dimethylformamide	880	<LOQ	0.132
Toluene	890	<LOQ	2.4	Sulfolane	160	<LOQ	6.4	Propane	5000	<LOQ	26.668
				Total Xylenes	1000	<LOQ	7.2	Tetrahydrofuran	720	<LOQ	6.4

(ppm) = Parts per Million, (ppm) = (µg/g), LOQ = Limit of Quantitation

Water Activity (Tested)

(Water Activity Analyzer)

Analyte	Result (aw)
Water Activity	0.362

(aw) = aw

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Pathogenic Microbiology SAE (MicroArray) (Passed)

(Micro Array)

Analyte	Result (cfu/g)	Analyte	Result (cfu/g)	Analyte	Result (cfu/g)
Aspergillus flavus	Absence in 1g	Aspergillus fumigatus	Absence in 1g	Aspergillus niger	Absence in 1g
Aspergillus terreus	Absence in 1g	Salmonella	Absence in 1g	STEC E. Coli	Absence in 1g

(cfu/g) = Colony Forming Unit per Gram

Total Yeast and Mold (Passed)

(qPCR)

Analyte	Action Level (cfu/g)	Result
Total Yeast/Mold	100000	Passed

(cfu/g) = Colony Forming Unit per Gram

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