

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

Certificate of Analysis

ACS | CANNABIS & HEMP
LABORATORY | BEYOND COMPLIANCE

Order #: BAL200908-020039 Order Date: 2020-09-08 Collection Date: 2020-09-10 Report Date: 2020-10-13

Batch #: 1202381
Sample #: AAA0894
Specimen Type: CBD/HEMP Derivative Products (Ingestion)
Extracted From: HEMP
Description: RELIEF + RELAX 5000mg CBD OIL PER BOTTLE-FSO

Initial Gross Weight: 12.883 g
Density: .9761 mg/ml
Method: SOP-3



Potency Tested	Terpenes Tested	Heavy Metals Passed
Mycotoxins Passed	Pesticides Passed	Residual Solvents Passed
Water Activity Tested	Pathogenic 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 18.287%	Total THC 0.257%	Total CBG 0.818%
Total CBN 0.899%	Other Cannabinoids 2.456%	Total Cannabinoids 22.716%

Potency - 11 (Tested) (HPLC/LCMS)

Analyte	Result (mg/ml)	(%)	LOQ (%)	Analyte	Result (mg/ml)	(%)	LOQ (%)	Analyte	Result (mg/ml)	(%)	LOQ (%)
CBC	21.045	2.156	0.001	CBD	176.186	18.050	0.001	CBDA	2.634	0.270	0.001
CBDV	2.923	0.300	0.001	CBG	7.714	0.790	0.001	CBGA	0.312	0.032	0.001
CBN	8.775	0.899	0.001	Delta-8 THC	0.503	0.051	0.001	Delta-9 THC	2.509	0.257	0.001
THCA-A		<LOQ	0.001	THCV		<LOQ	0.001	Total CBD	178.496	18.287	0.001
Total THC	2.509	0.257	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 + THC + THCV + THCV-A, *Total Detected Cannabinoids = CBD Total + CBG Total + CBN Total + THC Total + CBC + CBDV + THC + THCV + THCV-A (mg/ml) = Milligrams per Milliliter, , LOQ = Limit of Quantitation, , LOD = Limit of Detection

Xueli Gao
Ph.D., DABT

Lab Toxicologist

Aixia Sun

Lab Director/Principal Scientist

D.H.Sc., M.Sc., B.Sc., MT (AAB)

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Terpenes - FL (Tested)

(GC/GCMS)

Analyte	Result (mg/g)	(%)	LOQ (%)	Analyte	Result (mg/g)	(%)	LOQ (%)	Analyte	Result (mg/g)	(%)	LOQ (%)
(+)-Cedrol	<LOQ		0.02	(R)-(+)-Limonene	<LOQ		0.02	3-Carene	<LOQ		0.02
Alpha-Bisabolol	<LOQ		0.02	alpha-Cedrene	<LOQ		0.02	alpha-Humulene	<LOQ		0.02
alpha-Phellandrene	<LOQ		0.02	Alpha-Pinene	<LOQ		0.02	Alpha-Terpinene	<LOQ		0.02
Borneol	<LOQ		0.04	Beta-Myrcene	<LOQ		0.02	Beta-Pinene	<LOQ		0.02
Caryophyllene oxide	<LOQ		0.02	Camphene	<LOQ		0.02	Camphors	<LOQ		0.04
Fenchyl Alcohol	<LOQ		0.02	cis-Nerolidol	<LOQ		0.02	Eucalyptol	<LOQ		0.02
Guaiol	<LOQ		0.02	Farnesene	<LOQ		0.02	Fenchone	<LOQ		0.02
Isopulegol	<LOQ		0.02	Gamma-Terpinene	<LOQ		0.02	Geraniol	<LOQ		0.02
Ocimene	<LOQ		0.014	Hexahydrothymol	<LOQ		0.02	Geranyl acetate	<LOQ		0.02
Sabinene Hydrate	<LOQ		0.02	Linalool	<LOQ		0.02	Isoborneol	<LOQ		0.02
trans-beta-Ocimene	<LOQ		0.006	Pulegone	<LOQ		0.02	Nerol	<LOQ		0.02
				Terpineol	<LOQ		0.02	Sabinene	<LOQ		0.02
				Trans-Caryophyllene	<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

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Heavy Metals (Passed)

(ICP-MS)

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

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

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				

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

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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	Etoazole	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				

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

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Residual Solvents - BHB (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	0.16	1,2-Dimethoxyethane	100	<LOQ	0.04	1,2-dichloroethane	2	<LOQ	1.67
1,4 Dioxane	380	<LOQ	1.67	1-Butanol	5000	<LOQ	1.67	1-Pentanol	5000	<LOQ	1.67
1-Propanol	5000	<LOQ	1.67	2,2-dimethylbutane	290	<LOQ	1.67	2,3-dimethylbutane	290	<LOQ	1.67
2-Butanol	5000	<LOQ	1.67	2-Butanone	5000	<LOQ	6.4	2-Ethoxyethanol	160	<LOQ	1.67
2-methylbutane	5000	<LOQ	1.67	2-Methylpentane	290	<LOQ	1.67	2-Propanol (IPA)	5000	<LOQ	1.67
3-Methylpentane	290	<LOQ	1.67	Acetone	5000	<LOQ	1.67	Acetonitrile	410	<LOQ	0.02
Benzene	2	<LOQ	1.67	Butane	2000	<LOQ	1.67	Chloroform	60	<LOQ	0.04
Cumene	70	<LOQ	1.67	Cyclohexane	3880	<LOQ	1.67	Dichloromethane	600	<LOQ	1.67
Dimethyl sulfoxide	5000	<LOQ	1.67	Ethanol	5000	<LOQ	1.67	Ethyl Acetate	5000	<LOQ	1.11
Ethylene Oxide	5	<LOQ	0.1	Ethyl Ether	5000	<LOQ	1.39	Ethylene glycol	620	<LOQ	1.67
Hexane	290	<LOQ	1.17	Heptane	5000	<LOQ	1.67	Heptane	5000	<LOQ	1.67
Methanol	3000	<LOQ	0.69	Isopropyl acetate	5000	<LOQ	1.67	Isopropyl alcohol	500	<LOQ	1.67
				Methylene chloride	600	<LOQ	2.43	Methylpropane	5000	<LOQ	1.67
								N,N-dimethylacetamide	1090	<LOQ	1.67
N,N-dimethylformamide	880	<LOQ	1.67	Pentane	5000	<LOQ	1.67	Propane	2100	<LOQ	1.67
				Pyridine	100	<LOQ	1.67	Sulfolane	160	<LOQ	1.67
				Tetrahydrofuran	720	<LOQ	1.67	Toluene	890	<LOQ	1.67
Total Xylenes	1000	<LOQ	1.67	Trichloroethylene	80	<LOQ	0.49				

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

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Water Activity (Tested)

(Water Activity Analyzer)

Analyte	Result (aw)
Water Activity	0.305

(aw) = aw

Pathogenic SAE (qPCR) (Passed)

(qPCR)

Analyte	Result (cfu/g)	Analyte	Result (cfu/g)	Analyte	Result (cfu/g)
Aspergillus (Flavus, Fumigatus, Niger, Terreus)	Absence in 1g	E.Coli	Absence in 1g	Salmonella	Absence in 1g

(cfu/g) = Colony Forming Unit per Gram

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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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