

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

Certificate of Analysis

ACS | CANNABIS & HEMP
LABORATORY | BEYOND COMPLIANCE

Order #: BAL200619-020129 Order Date: 2020-06-19 Collection Date: 2020-06-22 Report Date: 2020-06-26

Batch #: 1201550
Sample #: AAAI112
Specimen Type: CBD/HEMP Derivative Products (Ingestion)
Extracted From: HEMP
Description: RELIEF + RELAX 2500mg CBD OIL PER BOTTLE

Initial Gross Weight: 23472 mg
Specimen Weight: 506.5 mg
Density: 0.94825 g/ml
Method: SOP-3



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



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

Total CBD Dry Weight 9.784%	Total THC Dry Weight 0.227%	Total CBG 0.129%
Total CBN 0.014%	Other Cannabinoids 0.198%	Total Cannabinoids 10.351%

Potency - 11 (Tested)

(HPLC/LCMSMS)

Analyte	Result (mg/ml)	(%)	LOQ (%)	Analyte	Result (mg/ml)	(%)	LOQ (%)	Analyte	Result (mg/ml)	(%)	LOQ (%)
CBC	1.882	0.198	0.001	CBD	92.948	9.784	0.001	CBDA	<LOQ		0.001
CBDV	<LOQ		0.001	CBG	1.223	0.129	0.001	CBGA	<LOQ		0.001
CBN	0.131	0.014	0.001	Delta-8 THC	<LOQ		0.001	Delta-9 THC	2.152	0.227	0.001
THCA-A	<LOQ		0.001	THCV	<LOQ		0.001	Total CBD	92.948	9.784	0.001
Total THC	2.152	0.227	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/ml) = Milligrams per Milliliter, LOQ = Limit of Quantitation

Xueli Gao
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Lab Toxicologist

Aixia Sun
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Principal Scientist

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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/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)
Aflatoxin B1		<LOQ	6	Aflatoxin B2		<LOQ	6	Aflatoxin G1		<LOQ	6
Aflatoxin G2		<LOQ	6	Aflatoxin Total	20	<LOQ	6	Ochratoxin A	20	<LOQ	12

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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		0.001	(R)-(+)-Limonene	<LOQ		0.001	3-Carene	<LOQ		0.001
Alpha-Bisabolol	<LOQ		0.001	alpha-Cedrene	<LOQ		0.001	alpha-Humulene	<LOQ		0.001
alpha-Phellandrene	<LOQ		0.001	Alpha-Pinene	<LOQ		0.001	Alpha-Terpinene	<LOQ		0.001
Borneol	<LOQ		0.001	Beta-Myrcene	0.050	0.005	0.001	Beta-Pinene	<LOQ		0.001
Caryophyllene oxide	<LOQ		0.001	Camphene	<LOQ		0.001	Camphors	<LOQ		0.001
Fenchyl Alcohol	<LOQ		0.001	cis-Nerolidol	<LOQ		0.001	Eucalyptol	<LOQ		0.001
				Farnesene	<LOQ		0.001	Fenchone	<LOQ		0.001
				Gamma-Terpinene	<LOQ		0.001	Geraniol	<LOQ		0.001
				Hexahydrothymol	<LOQ		0.001	Geranyl acetate	<LOQ		0.001
				Linalool	<LOQ		0.001	Isoborneol	<LOQ		0.001
				Pulegone	<LOQ		0.001	Nerol	<LOQ		0.001
				Terpineol	<LOQ		0.001	Sabinene	<LOQ		0.001
				Trans-Caryophyllene	<LOQ		0.001	Terpinolene	<LOQ		0.001
								trans-Nerolidol	<LOQ		0.001
								Valencene	<LOQ		0.001

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

Microbiology #4 (qPCR) (Passed)

(qPCR)

Analyte	Remark
Total Yeast/Mold	Passed

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Pathogenic Microbiology #1 (MMTC Compliance Panel) (Passed)

(Micro Array)

Analyte	Result	Analyte	Result	Analyte	Result
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

Residual Solvents - FL (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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Water Activity (Passed)

(Water Activity
Analyzer)

Analyte	Action Level (aw)	Result (aw)
Water Activity	0.85	0.246

(aw) = aw

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Pesticides FL V4 (Non-Inhalable) (Passed)

(LCMS/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)
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	Carbaryl	500	<LOQ	10
Carbofuran	100	<LOQ	10	Chlorantraniliprole	3000	<LOQ	10	Chlordane	100	<LOQ	10
Chlorfenapyr	100	<LOQ	30	Chlormequat Chloride	3000	<LOQ	10	Chlorpyrifos	100	<LOQ	30
Coumaphos	100	<LOQ	48	Cyfluthrin	1000	<LOQ	30	Clofentezine	500	<LOQ	30
Daminozide	100	<LOQ	30	Diazinon	200	<LOQ	30	Cypermethrin	1000	<LOQ	30
Dimethoate	100	<LOQ	30	Dimethomorph	3000	<LOQ	48	Dichlorvos	100	<LOQ	30
Etofenprox	100	<LOQ	30	Etoazole	1500	<LOQ	30	Ethoprophos	100	<LOQ	30
Fenoxycarb	100	<LOQ	30	Fenpyroximate	2000	<LOQ	30	Fenhexamid	3000	<LOQ	10
Fonicamid	2000	<LOQ	30	Fludioxonil	3000	<LOQ	48	Fipronil	100	<LOQ	30
Imazalil	100	<LOQ	30	Imidacloprid	3000	<LOQ	30	Hexythiazox	2000	<LOQ	30
Malathion	1000	<LOQ	30	Metalaxyl	3000	<LOQ	10	Kresoxim Methyl	1000	<LOQ	30
Methomyl	100	<LOQ	30	methil-Parathion	100	<LOQ	10	Methiocarb	100	<LOQ	30
Myclobutanil	3000	<LOQ	30	Naled	500	<LOQ	30	Mevinphos	100	<LOQ	10
Paclobutrazol	100	<LOQ	30	Pentachloronitrobenzene	200	<LOQ	10	Oxamyl	500	<LOQ	30
Piperonylbutoxide	3000	<LOQ	30	Prallethrin	400	<LOQ	30	Permethrin	1000	<LOQ	30
Propoxur	100	<LOQ	30	Pyrethrins	1000	<LOQ	30	Phosmet	200	<LOQ	30
Spinetoram	3000	<LOQ	10	Spinosad	3000	<LOQ	30	Propiconazole	1000	<LOQ	30
Spirotetramat	3000	<LOQ	30	Spiroxamine	100	<LOQ	30	Pyridaben	3000	<LOQ	30
Thiacloprid	100	<LOQ	30	Thiamethoxam	1000	<LOQ	30	Spiromesifen	3000	<LOQ	30
								Tebuconazole	1000	<LOQ	30
								Trifloxystrobin	3000	<LOQ	30

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

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