



License No. 800025015
FL License # CMTL-0003
CLIA No. 10D1094068

Certificate of Analysis

Compliance Test

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

Batch # 7212650
Batch Date: 2021-09-30
Extracted From: HEMP

Sampling Method: MSP 7.3.1
Test Reg State: Florida

Production Date: 2021-09-30

Order # BAL211005-010001
Order Date: 2021-10-05
Sample # AACAT03

Sampling Date: 2021-10-06
Lab Batch Date: 2021-10-06
Completion Date: 2021-10-14

Initial Gross Weight: 51.440 g
Net Weight: 36.996 g
Density: 0.945 g/ml
Volume: 30.5 ml

Number of Units: 1
Net Weight per Unit: 29237.657 mg



Product Image

Potency Tested

Terpenes Tested

Heavy Metals Passed

Mycotoxins Passed

Pesticides Passed

Residual Solvents Passed

Water Activity Tested

Listeria Monocytogenes Passed

Pathogenic Passed

Microbiology Petrifilm Passed

Potency - 11

Specimen Weight: 115.180 mg

Analyte	Dilution (1:n)	LOD (%)	LOQ (%)	Result (mg/ml)	(%)
CBD	10.000	0.000054	0.001	20.686	2.189
CBC	10.000	0.000018	0.001	1.017	0.108
CBDV	10.000	0.000065	0.001	0.720	0.076
Delta-9 THC	10.000	0.000013	0.001	0.583	0.062
CBG	10.000	0.000248	0.001	0.568	0.060
CBDA	10.000	0.00001	0.001	0.136	0.014
CBN	10.000	0.000014	0.001	0.066	0.007
Delta-8 THC	10.000	0.000026	0.001	<LOQ	<LOQ
CBGA	10.000	0.00008	0.001	<LOQ	<LOQ
THCV	10.000	0.000007	0.001	<LOQ	<LOQ
THCA-A	10.000	0.000032	0.001	<LOQ	<LOQ

Tested (HPLC/LC/MS)

Potency Summary

0.062% Total THC	18.127mg	2.202% Total CBD	643.813mg
0.060% Total CBG	17.543mg	0.007% Total CBN	2.047mg
0.184% Other Cannabinoids	53.797mg	2.514% Total Cannabinoids	735.035mg

Terpenes Summary

Analyte	Result (mg/g)	(%)
trans-Caryophyllene	0.859	0.086%

Total Terpenes: 0.086%

Detailed Terpenes Analysis is on the following page

Xueli Gao Lab Toxicologist
Ph.D., DABT

Aixia Sun Lab Director/Principal Scientist
D.H.Sc., M.Sc., B.Sc., MT (AAB)



Definitions and Abbreviations used in this report: *Total CBD = CBD + (CBD-A * 0.877), *Total CBDV = CBDV + (CBDVA * 0.87), *Total THC = THCA-A * 0.877 + Delta 9 THC, *Total THCV = THCV + (THCVA * 0.87), *CBG Total = (CBGA * 0.877) + CBG, *CBN Total = (CBNA * 0.877) + CBN, *Total CBC = CBC + (CBCA * 0.877), *Other Cannabinoids Total = Total Cannabinoids - All the listed cannabinoids on the summary section, *Total Detected Cannabinoids = Delta8-THC + Total CBN + CBT + Delta8-THCV + Total CBG + Total CBD + Total THCV + CBL + Total THC + Total CBC + Total CBDV + Delta10-THC + THCO-Acetate, *Analyte Details above show the Dry Weight Concentrations unless specified as 12% moisture concentration. (mg/ml) = Milligrams per Milliliter, LOQ = Limit of Quantitation, LOD = Limit of Detection, Dilution = Dilution Factor (ppb) = Parts per Billion, (%) = Percent, (cfu/g) = Colony Forming Unit per Gram (cfu/g) = Colony Forming Unit per Gram, LOD = Limit of Detection, (µg/g) = Microgram per Gram (ppm) = Parts per Million, (ppm) = (µg/g), (aw) = aw (area ratio) = Area Ratio, (mg/Kg) = Milligram per Kilogram, *Measurement of Uncertainty = +/- 5%



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Sample # AAC103

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Density: 0.945 g/ml
Volume: 30.5 ml

Number of Units: 1
Net Weight per Unit: 29237.657 mg



Terpenes

Specimen Weight: 115.180 mg

Tested
(GC/GCMS)

Dilution Factor: 20.000

Analyte	LOQ (%)	Result (mg/g)	(%)	Analyte	LOQ (%)	Result (mg/g)	(%)
trans-Caryophyllene	0.02	0.859	0.086	(+)-Cedrol	0.02	<LOQ	
Nerol	0.02	<LOQ		Geraniol	0.02	<LOQ	
Geranyl acetate	0.02	<LOQ		Guaiol	0.02	<LOQ	
Hexahydrothymol	0.02	<LOQ		Isoborneol	0.02	<LOQ	
Isopulegol	0.02	<LOQ		Linalool	0.02	<LOQ	
Ocimene	0.014	<LOQ		Fenchyl Alcohol	0.02	<LOQ	
Pulegone	0.02	<LOQ		Sabinene	0.02	<LOQ	
Sabinene Hydrate	0.02	<LOQ		Terpinolene	0.02	<LOQ	
Total Terpeneol	0.02	<LOQ		trans-Nerolidol	0.02	<LOQ	
Gamma-Terpinene	0.02	<LOQ		Fenchone	0.02	<LOQ	
(R)-(+)-Limonene	0.02	<LOQ		3-Carene	0.02	<LOQ	
alpha-Bisabolol	0.02	<LOQ		alpha-Cedrene	0.02	<LOQ	
alpha-Humulene	0.02	<LOQ		alpha-Phellandrene	0.02	<LOQ	
alpha-Pinene	0.02	<LOQ		alpha-Terpinene	0.02	<LOQ	
Farnesene	0.02	<LOQ		beta-Myrcene	0.02	<LOQ	
beta-Pinene	0.02	<LOQ		Borneol	0.04	<LOQ	
Camphene	0.02	<LOQ		Camphors	0.04	<LOQ	
Caryophyllene oxide	0.02	<LOQ		cis-Nerolidol	0.02	<LOQ	
Eucalyptol	0.02	<LOQ		Valencene	0.02	<LOQ	

Total Terpenes: 0.086%

Xueli Gao
Xueli Gao Lab Toxicologist
Ph.D., DABT

Aixia Sun
Aixia Sun Lab Director/Principal Scientist
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Number of Units: 1
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Heavy Metals

Specimen Weight: 251.900 mg

Passed
(ICP-MS)

Dilution Factor: 2.000

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

Mycotoxins - CO

Specimen Weight: 190.900 mg

Passed
(LCMS)

Dilution Factor: 7.858

Analyte	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Aflatoxin B1	2.5	5	<LOQ	Aflatoxin Total	2.5	20	<LOQ
Ochratoxin A	3.5	5	<LOQ				

*Aflatoxin Total = B1 + B2 + G1 + G2

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Number of Units: 1
Net Weight per Unit: 29237.657 mg

Pesticides FL (MGK) **Passed**
(LCMS/GCMS)

Specimen Weight: 190.900 mg

Dilution Factor: 7.858

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

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Xueli Gao Lab Toxicologist
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Volume: 30.5 ml

Number of Units: 1
Net Weight per Unit: 29237.657 mg

Residual Solvents – FL/UT (BHB) **Passed (GCMS)**

Specimen Weight: 7.900 mg

Dilution Factor: 1.000

Analyte	LOQ (ppm)	Action Level (ppm)	Result (ppm)	Analyte	LOQ (ppm)	Action Level (ppm)	Result (ppm)
1,1-Dichloroethene	0.16	8	<LOQ	1,2 Dimethoxyethane	0.04	100	<LOQ
1,2-Dichloroethane	1.67	2	<LOQ	1,4 Dioxane	1.67	380	<LOQ
1-Butanol	1.67	5000	<LOQ	1-Pentanol	1.67	5000	<LOQ
1-Propanol	1.67	5000	<LOQ	2,2-dimethylbutane	1.67	290	<LOQ
2,3-dimethylbutane	1.67	290	<LOQ	2-Butanol	1.67	5000	<LOQ
2-Butanone	6.4	5000	<LOQ	2-Ethoxyethanol	1.67	160	<LOQ
2-methylbutane	1.67	5000	<LOQ	2-Methylpentane	1.67	290	<LOQ
2-Propanol (IPA)	1.67	5000	<LOQ	3-Methylpentane	1.67	290	<LOQ
Acetone	1.67	5000	<LOQ	Acetonitrile	0.02	410	<LOQ
Benzene	1.67	2	<LOQ	Butane	1.67	2000	<LOQ
Chloroform	0.04	60	<LOQ	Cumene	1.67	70	<LOQ
Cyclohexane	1.67	3880	<LOQ	Dichloromethane	1.67	600	<LOQ
Dimethyl sulfoxide	1.67	5000	<LOQ	Ethanol	1.67	5000	<LOQ
Ethyl Acetate	1.11	5000	<LOQ	Ethyl Ether	1.39	5000	<LOQ
Ethylene glycol	1.67	620	<LOQ	Ethylene Oxide	0.1	5	<LOQ
Heptane	1.67	5000	<LOQ	Hexane	1.17	290	<LOQ
Isopropyl acetate	1.67	5000	<LOQ	Isopropyl alcohol	1.67	500	<LOQ
Methanol	0.69	3000	<LOQ	Methylene chloride	2.43	600	<LOQ
Methylpropane	1.67	5000	<LOQ	N,N-dimethylacetamide	1.67	1090	<LOQ
N,N-dimethylformamide	1.67	880	<LOQ	Pentane	1.67	5000	<LOQ
Propane	1.67	2100	<LOQ	Pyridine	1.67	100	<LOQ
Sulfolane	1.67	160	<LOQ	Tetrahydrofuran	1.67	720	<LOQ
Toluene	1.67	890	<LOQ	Total Xylenes	1.67	1000	<LOQ
Trichloroethylene	0.49	80	<LOQ				

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Volume: 30.5 ml

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Water Activity Tested (Water Activity Analyzer)

Specimen Weight: 0.500 g

Dilution Factor: 1.000

Analyte	Action Level (aw)	Result (aw)
Water Activity	0.85	0.424

Listeria Monocytogenes Passed (qPCR)

Specimen Weight: 9997.260 mg

Dilution Factor: 1.000

Analyte	Action Level (cfu/g)	Result
Listeria Monocytogenes	1	Absence in 1g

Pathogenic SAE (qPCR) - CO Passed (qPCR)

Specimen Weight: 26.000 g

Dilution Factor: 1.000

Analyte	Action Level (cfu/g)	Result (cfu/g)	Analyte	Action Level (cfu/g)	Result (cfu/g)
Aspergillus (Flavus, Fumigatus, Niger, Terreus)	1	Absence in 1g	Salmonella	25	Absence in 25g
			STEC	25	Absence in 25g

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Aixia Sun Lab Director/Principal Scientist
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Definitions and Abbreviations used in this report: *Total CBD = CBD + (CBD-A * 0.877), *Total CBDV = CBDV + (CBDVA * 0.87), *Total THC = THCA-A * 0.877 + Delta 9 THC, *Total THCV = THCV + (THCVA * 0.87), *CBG Total = (CBGA * 0.877) + CBG, *CBN Total = (CBNA * 0.877) + CBN, *Total CBC = CBC + (CBCA * 0.877), *Other Cannabinoids Total = Total Cannabinoids - All the listed cannabinoids on the summary section, *Total Detected Cannabinoids = Delta8-THC + Total CBN + CBT + Delta8-THCV + Total CBG + Total CBD + Total THCV + CBL + Total THC + Total CBC + Total CBDV + Delta10-THC + THCO-Acetate, *Analyte Details above show the Dry Weight Concentrations unless specified as 12% moisture concentration. (mg/ml) = Milligrams per Milliliter, LOQ = Limit of Quantitation, LOD = Limit of Detection, Dilution = Dilution Factor (ppb) = Parts per Billion, (%) = Percent, (cfu/g) = Colony Forming Unit per Gram (cfu/g) = Colony Forming Unit per Gram, LOD = Limit of Detection, (µg/g) = Microgram per Gram (ppm) = Parts per Million, (ppm) = (µg/g), (aw) = aw (area ratio) = Area Ratio, (mg/Kg) = Milligram per Kilogram, *Measurement of Uncertainty = +/- 5%



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License No. 800025015
FL License # CMTL-0003
CLIA No. 10D1094068

Certificate of Analysis

Compliance Test

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

Batch # 7212650
Batch Date: 2021-09-30
Extracted From: HEMP

Sampling Method: MSP 7.3.1
Test Reg State: Florida

Production Date: 2021-09-30

Order # BAL211005-010001
Order Date: 2021-10-05
Sample # AAC103

Sampling Date: 2021-10-06
Lab Batch Date: 2021-10-06
Completion Date: 2021-10-14

Initial Gross Weight: 51.440 g
Net Weight: 36.996 g
Density: 0.945 g/ml
Volume: 30.5 ml

Number of Units: 1
Net Weight per Unit: 29237.657 mg



Microbiology (Petrifilm/Plating) - CO

Passed
(Petrifilm)

Specimen Weight: 991.150 mg

Dilution Factor: 10.000

Analyte	LOQ (cfu/g)	Result (cfu/g)	Analyte	LOQ (cfu/g)	Result (cfu/g)
Aerobic Bacteria	10	<10	Total Coliform	10	<10
Yeast/Mold	10	<10			

Xueli Gao
Xueli Gao
Lab Toxicologist
Ph.D., DABT

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