



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 # 1212500  
Batch Date: 2021-09-16  
Extracted From: HEMP

Sampling Method: MSP 7.3.1  
Test Reg State: Florida

Production Date: 2021-09-16

Order # BAL210921-010019  
Order Date: 2021-09-21  
Sample # AABY328

Sampling Date: 2021-09-23  
Lab Batch Date: 2021-09-23  
Completion Date: 2021-10-08

Initial Gross Weight: 51.343 g  
Net Weight: 36.498 g  
Density: 0.9428 mg/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: 96.960 mg

Analyte	Dilution (1:n)	LOD (%)	LOQ (%)	Result (mg/ml)	(%)
CBD	10.000	0.000054	0.001	31.895	3.383
CBN	10.000	0.000014	0.001	11.182	1.186
Delta-9 THC	10.000	0.000013	0.001	1.530	0.162
CBC	10.000	0.000018	0.001	1.259	0.134
CBG	10.000	0.000248	0.001	0.909	0.096
THCV	10.000	0.000007	0.001	<LOQ	
Delta-8 THC	10.000	0.000026	0.001	<LOQ	
CBGA	10.000	0.000008	0.001	<LOQ	
CBDV	10.000	0.000065	0.001	<LOQ	
CBDA	10.000	0.000001	0.001	<LOQ	
THCA-A	10.000	0.000032	0.001	<LOQ	

Tested (HPLC/LC/MS)

### Potency Summary

<b>0.162%</b> Total THC	47.365mg	<b>3.383%</b> Total CBD	989.110mg
<b>0.096%</b> Total CBG	28.068mg	<b>1.186%</b> Total CBN	346.759mg
<b>0.133%</b> Other Cannabinoids	38.886mg	<b>4.961%</b> Total Cannabinoids	1,450.480mg

### Terpenes Summary

Analyte	Result (mg/g)	(%)
trans-Caryophyllene	0.774	0.077%

**Total Terpenes: 0.077%**

Detailed Terpenes Analysis is on the following page

Xueli Gao  
Ph.D., DABT  
Lab Toxicologist

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



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Volume: 30.5 ml

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



## Terpenes

Specimen Weight: 96.960 mg

Tested  
(GC/GCMS)

Dilution Factor: 20.000

Analyte	LOQ (%)	Result (mg/g)	(%)	Analyte	LOQ (%)	Result (mg/g)	(%)
trans-Caryophyllene	0.02	0.774	0.077	(+)-Cedrol	0.02	<LOQ	<LOQ
Nerol	0.02	<LOQ	<LOQ	Geraniol	0.02	<LOQ	<LOQ
Geranyl acetate	0.02	<LOQ	<LOQ	Guaiol	0.02	<LOQ	<LOQ
Hexahydrothymol	0.02	<LOQ	<LOQ	Isoborneol	0.02	<LOQ	<LOQ
Isopulegol	0.02	<LOQ	<LOQ	Linalool	0.02	<LOQ	<LOQ
Ocimene	0.014	<LOQ	<LOQ	Fenchyl Alcohol	0.02	<LOQ	<LOQ
Pulegone	0.02	<LOQ	<LOQ	Sabinene	0.02	<LOQ	<LOQ
Sabinene Hydrate	0.02	<LOQ	<LOQ	Terpinolene	0.02	<LOQ	<LOQ
Total Terpeneol	0.02	<LOQ	<LOQ	trans-Nerolidol	0.02	<LOQ	<LOQ
Gamma-Terpinene	0.02	<LOQ	<LOQ	Fenchone	0.02	<LOQ	<LOQ
(R)-(+)-Limonene	0.02	<LOQ	<LOQ	3-Carene	0.02	<LOQ	<LOQ
alpha-Bisabolol	0.02	<LOQ	<LOQ	alpha-Cedrene	0.02	<LOQ	<LOQ
alpha-Humulene	0.02	<LOQ	<LOQ	alpha-Phellandrene	0.02	<LOQ	<LOQ
alpha-Pinene	0.02	<LOQ	<LOQ	alpha-Terpinene	0.02	<LOQ	<LOQ
Farnesene	0.02	<LOQ	<LOQ	beta-Myrcene	0.02	<LOQ	<LOQ
beta-Pinene	0.02	<LOQ	<LOQ	Borneol	0.04	<LOQ	<LOQ
Camphene	0.02	<LOQ	<LOQ	Camphors	0.04	<LOQ	<LOQ
Caryophyllene oxide	0.02	<LOQ	<LOQ	cis-Nerolidol	0.02	<LOQ	<LOQ
Eucalyptol	0.02	<LOQ	<LOQ	Valencene	0.02	<LOQ	<LOQ

Total Terpenes: 0.077%

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

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



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Volume: 30.5 ml

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

### Heavy Metals

Specimen Weight: 248.900 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: 174.300 mg

Passed  
(LCMS)

Dilution Factor: 8.606

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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**Pesticides FL (MGK)** Passed (LCMS/GCMS)  
Specimen Weight: 174.300 mg

Dilution Factor: 8.606

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
Etoazole	30	1500	<LOQ	Fenhexamid	10	3000	<LOQ
Fenoxycarb	30	100	<LOQ	Fenpyroximate	30	2000	<LOQ
Fipronil	30	100	<LOQ	Flonicamid	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	Spirotoram	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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**Residual Solvents – FL/UT (BHB)** **Passed (GCMS)**

Specimen Weight: 14.600 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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## 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	0.267

## Listeria Monocytogenes Passed (qPCR)

Specimen Weight: 1005.100 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: 25.029 mg

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  
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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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 # 1212500  
Batch Date: 2021-09-16  
Extracted From: HEMP

Sampling Method: MSP 7.3.1  
Test Reg State: Florida

Production Date: 2021-09-16

Order # BAL210921-010019  
Order Date: 2021-09-21  
Sample # AABY328

Sampling Date: 2021-09-23  
Lab Batch Date: 2021-09-23  
Completion Date: 2021-10-08

Initial Gross Weight: 51.343 g  
Net Weight: 36.498 g  
Density: 0.9428 mg/ml  
Volume: 30.5 ml

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

**Microbiology (Petrifilm/Plating) - CO** **Passed**  
(Petrifilm)

Specimen Weight: 1003.700 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  
Ph.D., DABT  
Lab Toxicologist

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



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