

Certificate of Analysis for
 Balanced Health Botanicals
 1500 W Hampden Ave, Unit 5G
 Sheridan, CO 80110

 Received: 10/20/202 Temp (°C): 16.8
 Report ID: 2110625
Sample ID: 2110625-001**Sample Description:** 33mg/mL Isolate Tincture (3212920)**BHB HEMP PRODUCTS****PETRIFILM™: AC G****AC.1a: AC by mass via AOAC 990.12 (Petrifilm™)**

Aerobic Plate Count < 10 CFU/g

BHB HEMP PRODUCTS**WATER ACTIVITY****aW.1: aW via AquaLab Chilled-Mirror & Capacitance Methods**

Water Activity 0.174 aW

BHB HEMP PRODUCTS**CANNABINOIDS VIA HPLC****CBD.1: Cannabinoids via MBL-HPLC2**

Cannabichromene (CBC)	< 0.200	mg/mL	Cannabicitran (CBT)	< 0.200	mg/mL
Cannabidiol (CBD)	35.1	mg/mL	Cannabidiolic Acid (CBDA)	< 0.100	mg/mL
Cannabidivarin (CBDV)	< 0.100	mg/mL	Cannabigerol (CBG)	< 0.100	mg/mL
Cannabinol (CBN)	< 0.100	mg/mL	Delta - 9 THC (THC)	< 0.100	mg/mL
Delta 9 - Tetrahydrocannabinolic Acid (THCA-A)	< 0.010	% (g/100mL)	Potential CBD	3.51	% (g/100mL)
Potential THC	< 0.010	% (g/100mL)	Tetrahydrocannabivarin	< 0.100	mg/mL

**CEC PF G****PETRIFILM™: COLIFORM G****TC.1a: TC by mass via AOAC 991.14, 998.03 (Petrifilm™)**

Total Coliform Bacteria < 10 CFU/g

CEC PF G**PETRIFILM™: E. COLI G****EC.1a: EC by mass via AOAC 991.14, 998.08 (Petrifilm™)**

Escherichia coli < 10 CFU/g

BHB HEMP PRODUCTS**HEAVY METALS (AS, CD, HG, PB)****ICPMS.1: Metals via FDA - EAM:2008 (ICP/MS)**

Arsenic (As)	< 0.020	mg/kg (ppm)	Cadmium (Cd)	< 0.010	mg/kg (ppm)
Lead (Pb)	< 0.005	mg/kg (ppm)	Mercury (Hg)	< 0.005	mg/kg (ppm)

BHB HEMP PRODUCTS**GENE-UP®: L. MONOCYTOGENES 10 G****LMono.2: Listeria monocytogenes via AOAC 121804 (Gene-Up® PCR System)**

Listeria monocytogenes Negative /10 g

BHB HEMP PRODUCTS**MYCOTOXINS****Myc.1: Mycotoxins by LC-MS**

Aflatoxin B1	< 10	µg/kg (ppb)	Aflatoxin B2	< 10	µg/kg (ppb)
Aflatoxin G1	< 10	µg/kg (ppb)	Aflatoxin G2	< 10	µg/kg (ppb)
Ochratoxin A	< 20	µg/kg (ppb)			



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BHB HEMP PRODUCTS PESTICIDES (LCMS)

Pest.1: Pesticides by LC/MS/MS (Agilent App - Determination of Pesticides and Mycotoxins)

Abamectin (B1a + B1b)	< 50	µg/kg (ppb)	Acephate	< 25	µg/kg (ppb)
Acequinocyl	< 20	µg/kg (ppb)	Acetamiprid	< 10	µg/kg (ppb)
Aldicarb	< 10	µg/kg (ppb)	Azoxystrobin	< 10	µg/kg (ppb)
Bifenazate	< 50	µg/kg (ppb)	Bifenthrin	< 20	µg/kg (ppb)
Boscalid	< 50	µg/kg (ppb)	Carbaryl	< 25	µg/kg (ppb)
Carbofuran	< 25	µg/kg (ppb)	Chlorantraniliprole	< 25	µg/kg (ppb)
Chlorfenapyr	< 100	µg/kg (ppb)	Chlorpyrifos	< 25	µg/kg (ppb)
Clofentezine	< 10	µg/kg (ppb)	Coumaphos	< 10	µg/kg (ppb)
Cyfluthrin (Baythroid)	< 50	µg/kg (ppb)	Cypermethrin	< 50	µg/kg (ppb)
Daminozide	< 25	µg/kg (ppb)	Diazinon	< 10	µg/kg (ppb)
Dibrom (Naled)	< 50	µg/kg (ppb)	Dichlorvos	< 50	µg/kg (ppb)
Dimethoate	< 25	µg/kg (ppb)	Dimethomorph	< 25	µg/kg (ppb)
Ethofenprox	< 10	µg/kg (ppb)	Ethoprophos (Prophos)	< 25	µg/kg (ppb)
Etoxazole	< 25	µg/kg (ppb)	Fenhexamid	< 50	µg/kg (ppb)
Fenoxycarb	< 10	µg/kg (ppb)	Fenpyroximate	< 25	µg/kg (ppb)
Fipronil	< 10	µg/kg (ppb)	Flonicamid	< 25	µg/kg (ppb)
Fludioxonil	< 25	µg/kg (ppb)	Hexythiazox	< 10	µg/kg (ppb)
Imazalil	< 50	µg/kg (ppb)	Imidacloprid	< 10	µg/kg (ppb)
Kresoxim Methyl	< 10	µg/kg (ppb)	Malathion	< 100	µg/kg (ppb)
Metalaxyl	< 25	µg/kg (ppb)	Methiocarb	< 50	µg/kg (ppb)
Methomyl	< 25	µg/kg (ppb)	Oxamyl	< 10	µg/kg (ppb)
Pacllobutrazol	< 25	µg/kg (ppb)	Permethrins	< 10	µg/kg (ppb)
Phosdrin (Mevinphos)	< 50	µg/kg (ppb)	Phosmet	< 10	µg/kg (ppb)
Piperonyl Butoxide	< 10	µg/kg (ppb)	Prallethrin	< 25	µg/kg (ppb)
Propiconazol	< 25	µg/kg (ppb)	Propoxur	< 25	µg/kg (ppb)
Pyrethrins	< 50	µg/kg (ppb)	Pyridaben	< 10	µg/kg (ppb)
Spinetoram	< 25	µg/kg (ppb)	Spinosad A	< 10	µg/kg (ppb)
Spinosad D	< 50	µg/kg (ppb)	Spiromesifen	< 25	µg/kg (ppb)
Spirotetramat	< 25	µg/kg (ppb)	Spiroxamine	< 25	µg/kg (ppb)
Systhane (Myclobutanil)	< 50	µg/kg (ppb)	Tebuconazol (Folicur)	< 25	µg/kg (ppb)
Thiacloprid	< 25	µg/kg (ppb)	Thiamethoxam	< 25	µg/kg (ppb)
Trifloxystrobin	< 10	µg/kg (ppb)			

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BHB HEMP PRODUCTS
RESIDUAL SOLVENTS EXTENDED

ResSolv.2: Residual Solvents by Headspace GC/MS (VF-624MS)

(+/-)-2-Butanol	< 10	ppm	1,1-Dichloroethene	< 5	ppm
1,2-Dichloroethane	< 2	ppm	1,4-Dioxane	< 25	ppm
2,2-Dimethylbutane	< 25	ppm	2,3-Dimethylbutane	< 25	ppm
2-Ethoxyethanol	< 75	ppm	2-Methylbutane (Isopentane)	< 75	ppm
2-Methylpentane	< 25	ppm	2-Propanol	< 50	ppm
3-Methylpentane	< 25	ppm	Acetone	< 50	ppm
Acetonitrile	< 50	ppm	Benzene	< 2	ppm
Chloroform	< 50	ppm	Cumene	< 100	ppm
Cyclohexane	< 50	ppm	Diethyl ether	< 50	ppm
Ethanol	< 50	ppm	Ethyl Acetate	< 50	ppm
Ethyl benzene	< 25	ppm	Ethylene Glycol	< 100	ppm
Ethylene Oxide	< 50	ppm	Heptane	< 50	ppm
Hexane	< 50	ppm	Isobutane	< 100	ppm
Isopropyl acetate	< 10	ppm	Methanol	< 50	ppm
Methylene Chloride	< 50	ppm	N,N-Dimethylformamide	< 10	ppm
n-Butane	< 100	ppm	Neopentane	< 100	ppm
Pentane	< 50	ppm	Propane	< 100	ppm
Tetrahydrofuran	< 10	ppm	Toluene	< 50	ppm
Trichloroethene	< 50	ppm	Xylenes (p-, m-, o-)	< 50	ppm

BHB HEMP PRODUCTS**BAX®: SALMONELLA 25 G****Salm.1a: Salmonella via AOAC 081201, 2013.02 (BAX® PCR System)**

Salmonella spp. Negative /25 g

BHB HEMP PRODUCTS**BAX® STEC SCREEN (STX-EAE) 25 G****STEC.1.a: Shiga toxin (stx) & Intimin (eae) genes via AOAC 091301 (BAX® PCR System, STEC Screen)**

Shiga toxin-producing E. coli Negative /25 g stx and eae genes Negative /25 g

BHB HEMP PRODUCTS**PETRIFILM™: Y&M G****YM.1a: YM by mass via AOAC RI 121301 (Petrifilm™)**

Yeast and Mold < 10 CFU/g

Cannabinoid concentrations were converted to mg/mL and g/100mL based on client supplied density of 0.9412 g/mL. RPC 10-25-21

Reported By:

Ryan Connelly, Chemistry Laboratory Manager, 10/25/2021

LIMITS OF QUANTITATION

Heavy Metals: ICPMS.1

Analyte	LoQ
Arsenic	< 0.020 ppm
Cadmium	< 0.010 ppm
Mercury	< 0.005 ppm
Lead	< 0.005 ppm

Mycotoxins: Myco.1

Analyte	LoQ
Aflatoxin B1	< 0.010 ppm
Aflatoxin B2	< 0.010 ppm
Aflatoxin G1	< 0.010 ppm
Aflatoxin G2	< 0.010 ppm
Ochratoxin A	< 0.020 ppm

Residual Solvents: ResSolv.2

Analyte	LoQ
(+/-)-2-Butanol	< 10 ppm
1,1-Dichloroethene	< 5 ppm
1,2-Dichloroethane	< 2 ppm
1,4-Dioxane	< 25 ppm
2,2-Dimethylbutane	< 25 ppm
2,3-Dimethylbutane	< 25 ppm
2-Ethoxyethanol	< 75 ppm
2-Methylbutane (Isopentane)	< 75 ppm
2-Methylpentane	< 25 ppm
2-Propanol	< 50 ppm
3-Methylpentane	< 25 ppm
Acetone	< 50 ppm
Acetonitrile	< 50 ppm
Benzene	< 2 ppm
Chloroform	< 50 ppm
Cumene	< 100 ppm
Cyclohexane	< 50 ppm
Diethyl ether	< 50 ppm
Ethanol	< 50 ppm

Analyte	LoQ
Ethyl Acetate	< 50 ppm
Ethyl benzene	< 25 ppm
Ethylene Glycol	< 100 ppm
Ethylene Oxide	< 50 ppm
Heptane	< 50 ppm
Hexane	< 50 ppm
Isobutane	< 100 ppm
Isopropyl acetate	< 10 ppm
Methanol	< 50 ppm
Methylene Chloride	< 50 ppm
N,N-Dimethylformamide	< 10 ppm
n-Butane	< 100 ppm
Neopentane	< 100 ppm
Pentane	< 50 ppm
Propane	< 100 ppm
Tetrahydrofuran	< 10 ppm
Toluene	< 50 ppm
Trichloroethene	< 50 ppm
Xylenes (p-, m-, o-)	< 50 ppm



Pesticides: Pest.1

Analyte	LoQ
Abamectin (B1a + B1b)	< 0.050 ppm
Acephate	< 0.025 ppm
Acequinocyl	< 0.010 ppm
Acetamiprid	< 0.010 ppm
Aldicarb	< 0.010 ppm
Azoxystrobin	< 0.010 ppm
Bifenazate	< 0.050 ppm
Bifenthrin	< 0.010 ppm
Boscalid	< 0.050 ppm
Carbaryl	< 0.025 ppm
Carbofuran	< 0.025 ppm
Chlorantraniliprole	< 0.025 ppm
Chlorfenapyr	< 0.100 ppm
Chlorpyrifos	< 0.025 ppm
Clofentezine	< 0.010 ppm
Coumaphos	< 0.010 ppm
Cyfluthrin (Baythroid)	< 0.050 ppm
Cypermethrin	< 0.050 ppm
Daminozide	< 0.025 ppm
Diazinon	< 0.010 ppm
Dibrom (Naled)	< 0.050 ppm
Dichlorvos	< 0.050 ppm
Dimethoate	< 0.025 ppm
Dimethomorph	< 0.025 ppm
Ethofenprox	< 0.010 ppm
Ethoprophos (Prophos)	< 0.025 ppm
Etoxazole	< 0.025 ppm
Fenhexamid	< 0.050 ppm
Fenoxycarb	< 0.010 ppm
Fenpyroximate	< 0.025 ppm
Fipronil	< 0.010 ppm
Flonicamid	< 0.025 ppm

Analyte	LoQ
Fludioxonil	< 0.025 ppm
Hexythiazox	< 0.010 ppm
Imazalil	< 0.050 ppm
Imidacloprid	< 0.010 ppm
Kresoxim Methyl	< 0.010 ppm
Malathion	< 0.100 ppm
Metalaxyl	< 0.025 ppm
Methiocarb	< 0.050 ppm
Methomyl	< 0.025 ppm
Oxamyl	< 0.010 ppm
Paclbutrazol	< 0.025 ppm
Permethrins	< 0.010 ppm
Phosdrin (Mevinphos)	< 0.050 ppm
Phosmet	< 0.010 ppm
Piperonyl Butoxide	< 0.010 ppm
Prallethrin	< 0.025 ppm
Propiconazol	< 0.025 ppm
Propoxur	< 0.025 ppm
Pyrethrins	< 0.050 ppm
Pyridaben	< 0.010 ppm
Spinetoram	< 0.025 ppm
Spinosad A	< 0.010 ppm
Spinosad D	< 0.050 ppm
Spiromesifen	< 0.025 ppm
Spirotetramat	< 0.025 ppm
Spiroxamine	< 0.025 ppm
Systhane (Myclobutanil)	< 0.050 ppm
Tebuconazol (Folicur)	< 0.025 ppm
Thiacloprid	< 0.025 ppm
Thiamethoxam	< 0.025 ppm
Trifloxystrobin	< 0.010 ppm

Cannabinoids: CBD.1

Analyte	LoQ
Cannabichromene	< 0.200 mg/g
Cannabicitran	< 0.200 mg/g
Cannabidiol	< 0.100 mg/g
Cannabidiolic Acid	< 0.100 mg/g
Cannabidivarin	< 0.100 mg/g

Analyte	LoQ
Cannabigerol	< 0.100 mg/g
Cannabinol	< 0.100 mg/g
Delta - 9 THC	< 0.0100 %
Delta 9 - THCA	< 0.0100 %
Tetrahydrocannabivarin	< 0.100 mg/g

Microbials: APC.1a, EC.1a, TC.1a, Y&M.1a, STEC.1.a, Salm.1a, LMono.2

Analyte	LoQ
APC	< 10 CFU/g
Coliform/E. coli	< 10 CFU/g
Yeast/Mold	< 10 CFU/g

Analyte	LoQ
Salmonella	Negative in 25g
STEC	Negative in 25g
L. monocytogenes	Negative in 10g