



Certificate of Analysis for

Balanced Health Botanicals

1500 W Hampden Ave, Unit 5G

Sheridan, CO 80110

CDPHE: SHH2555

1253210 FSO 150mg CBN + 450mg CBD Tincture Matrix: Tincture

Received: 12/1/2025 @ 14.6 °C

Sample ID: 2512024-002

Analysis	Result	LOQ	LOD	Units	Analyzed	Analysis	Result	LOQ	LOD	Units	Analyzed
Aspergillus flavus	Absent	1	1	CFU/1 g	12/3/2025	Aspergillus fumigatus	Absent	1	1	CFU/1 g	12/3/2025
Aspergillus niger	Absent	1	1	CFU/1 g	12/3/2025	Aspergillus terreus	Absent	1	1	CFU/1 g	12/3/2025

Method: Aspergillus via AOAC PTM 022103 (Gene-Up® PCR)

Analysis	Result	LOQ	LOD	Units	Analyzed	Analysis	Result	LOQ	LOD	Units	Analyzed
Water Activity	0.320	0.100	0.0500	aW	12/4/2025	Method: aW via AquaLab Tunable Diode Laser Methods					

Analysis	Result	LOQ	LOD	Units	Analyzed	Analysis	Result	LOQ	LOD	Units	Analyzed
Cannabichromene (CBC)	0.785	0.00740	0.00370	mg/mL	12/3/2025	Cannabicitran (CBT)	< 0.200	0.00740	0.00370	mg/mL	12/3/2025
Cannabidiol (CBD)	16.2	0.00740	0.00370	mg/mL	12/3/2025	Cannabidiolic Acid (CBDA)	0.237	0.00740	0.00370	mg/mL	12/3/2025
Cannabidivarin (CBDV)	1.80	0.00740	0.00370	mg/mL	12/3/2025	Cannabigerol (CBG)	0.420	0.00740	0.00370	mg/mL	12/3/2025
Cannabinol (CBN)	5.50	0.00740	0.00370	mg/mL	12/3/2025	Delta - 9 THC (THC)	0.599	0.00740	0.00370	mg/mL	12/3/2025
Delta 9 - Tetrahydrocannabinolic Acid (THCA-A)	<LOD	0.00740	0.00370	mg/mL	12/3/2025	Potential CBD	1.73	NA	NA	%	12/3/2025
Potential THC	0.0632	NA	NA	%	12/3/2025	Tetrahydrocannabivarin (THCV) < 0.100	0.00740	0.00370	mg/mL	12/3/2025	

Method: Cannabinoids via MBL-HPLC2

Analysis	Result	LOQ	LOD	Units	Analyzed	Analysis	Result	LOQ	LOD	Units	Analyzed
Escherichia coli	<LOD	10	10	CFU/g	12/2/2025	Method: EC by mass via AOAC OM 2018.13 (Petrifilm™)					

Analysis	Result	LOQ	LOD	Units	Analyzed	Analysis	Result	LOQ	LOD	Units	Analyzed
Aerobic Plate Count	<LOD	10	10	CFU/g	12/2/2025	Method: AC by mass via AOAC 2015.13 (Petrifilm™) CDPHE Compliant					

Analysis	Result	LOQ	LOD	Units	Analyzed	Analysis	Result	LOQ	LOD	Units	Analyzed
Total Coliform Bacteria	<LOD	10	10	CFU/g	12/2/2025	Method: CC by mass via AOAC OM 2018.13 (Petrifilm™) CDPHE Compliant					

Analysis	Result	LOQ	LOD	Units	Analyzed	Analysis	Result	LOQ	LOD	Units	Analyzed
Salmonella spp.	Absent	1	1	CFU/25 g	12/2/2025	Shiga toxin-producing E. coli (stx)	Absent	1	1	CFU/25 g	12/2/2025

Method: STEC Salmonella via AOAC PTM 092101 CDPHE Compliant

Analysis	Result	LOQ	LOD	Units	Analyzed	Analysis	Result	LOQ	LOD	Units	Analyzed
Arsenic (As)	<LOD	0.0200	0.00510	mg/kg (ppm)	12/3/2025	Cadmium (Cd)	<LOD	0.0100	0.00510	mg/kg (ppm)	12/3/2025
Lead (Pb)	<LOD	0.00500	0.00170	mg/kg (ppm)	12/3/2025	Mercury (Hg)	<LOD	0.00500	0.00180	mg/kg (ppm)	12/3/2025

Method: Metals via ICP-MS (AOAC SMPR® 2020.001) CDPHE Compliant

Analysis	Result	LOQ	LOD	Units	Analyzed	Analysis	Result	LOQ	LOD	Units	Analyzed
Yeast and Mold	<LOD	10	10	CFU/g	12/2/2025	Method: YM by mass via AOAC RI 121301 (Petrifilm™) CDPHE Compliant					

Analysis	Result	LOQ	LOD	Units	Analyzed	Analysis	Result	LOQ	LOD	Units	Analyzed
Aflatoxin B1	<LOD	10.0	2.50	µg/kg (ppb)	12/4/2025	Aflatoxin B2	<LOD	10.0	2.50	µg/kg (ppb)	12/4/2025
Aflatoxin G1	<LOD	10.0	2.50	µg/kg (ppb)	12/4/2025	Aflatoxin G2	<LOD	10.0	2.50	µg/kg (ppb)	12/4/2025
Ochratoxin A	<LOD	20.0	5.00	µg/kg (ppb)	12/4/2025	Method: Mycotoxins by LC-MS					



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Abamectin	<LOD	25.0	10.0	µg/kg (ppb)	12/4/2025	Accephate	<LOD	10.0	3.33	µg/kg (ppb)	12/4/2025
Acequinocyl	<LOD	10.0	3.33	µg/kg (ppb)	12/4/2025	Acetamiprid	<LOD	10.0	3.33	µg/kg (ppb)	12/4/2025
Aldicarb	<LOD	10.0	3.33	µg/kg (ppb)	12/4/2025	Azoxystrobin	<LOD	10.0	3.33	µg/kg (ppb)	12/4/2025
Bifenazate	<LOD	10.0	3.33	µg/kg (ppb)	12/4/2025	Bifenthrin	<LOD	25.0	5.00	µg/kg (ppb)	12/4/2025
Boscalid	<LOD	10.0	3.33	µg/kg (ppb)	12/4/2025	Carbaryl	<LOD	10.0	3.33	µg/kg (ppb)	12/4/2025
Carbofuran	<LOD	10.0	3.33	µg/kg (ppb)	12/4/2025	Chlorantraniliprole	<LOD	10.0	3.33	µg/kg (ppb)	12/4/2025
Chlorfenapyr	<LOD	50.0	20.0	µg/kg (ppb)	12/4/2025	Chlorpyrifos	<LOD	10.0	3.33	µg/kg (ppb)	12/4/2025
Clofentezine	<LOD	10.0	3.33	µg/kg (ppb)	12/4/2025	Coumaphos	<LOD	10.0	3.33	µg/kg (ppb)	12/4/2025
Cyfluthrin	<LOD	50.0	20.0	µg/kg (ppb)	12/4/2025	Cypermethrin	<LOD	25.0	10.0	µg/kg (ppb)	12/4/2025
Daminozide	<LOD	25.0	10.0	µg/kg (ppb)	12/4/2025	Diazinon	<LOD	10.0	3.33	µg/kg (ppb)	12/4/2025
Dichlorvos	<LOD	10.0	3.33	µg/kg (ppb)	12/4/2025	Dimethoate	<LOD	10.0	3.33	µg/kg (ppb)	12/4/2025
Dimethomorph	<LOD	10.0	3.33	µg/kg (ppb)	12/4/2025	Ethoprophos	<LOD	10.0	3.33	µg/kg (ppb)	12/4/2025
Etofenprox	<LOD	10.0	3.33	µg/kg (ppb)	12/4/2025	Etoxazole	<LOD	10.0	3.33	µg/kg (ppb)	12/4/2025
Fenhexamid	<LOD	10.0	3.33	µg/kg (ppb)	12/4/2025	Fenoxycarb	<LOD	10.0	3.33	µg/kg (ppb)	12/4/2025
Fenpyroximate	<LOD	10.0	3.33	µg/kg (ppb)	12/4/2025	Fipronil	<LOD	10.0	3.33	µg/kg (ppb)	12/4/2025
Fonicamid	<LOD	10.0	3.33	µg/kg (ppb)	12/4/2025	Fludioxonil	<LOD	10.0	3.33	µg/kg (ppb)	12/4/2025
Hexythiazox	<LOD	10.0	3.33	µg/kg (ppb)	12/4/2025	Imazalil	<LOD	10.0	3.33	µg/kg (ppb)	12/4/2025
Imidacloprid	<LOD	10.0	3.33	µg/kg (ppb)	12/4/2025	Kresoxim-methyl	<LOD	10.0	3.33	µg/kg (ppb)	12/4/2025
Malathion	<LOD	10.0	3.33	µg/kg (ppb)	12/4/2025	Metalaxyl	<LOD	10.0	3.33	µg/kg (ppb)	12/4/2025
Methiocarb	<LOD	10.0	3.33	µg/kg (ppb)	12/4/2025	Methomyl	<LOD	10.0	3.33	µg/kg (ppb)	12/4/2025
Mevinphos	<LOD	50.0	10.0	µg/kg (ppb)	12/4/2025	Myclobutanil	<LOD	10.0	3.33	µg/kg (ppb)	12/4/2025
Naled	<LOD	10.0	3.33	µg/kg (ppb)	12/4/2025	Oxamyl	<LOD	10.0	3.33	µg/kg (ppb)	12/4/2025
Paclbutrazol	<LOD	10.0	3.33	µg/kg (ppb)	12/4/2025	Permethrin	<LOD	10.0	3.33	µg/kg (ppb)	12/4/2025
Phosmet	<LOD	25.0	2.50	µg/kg (ppb)	12/4/2025	Piperonyl Butoxide	<LOD	10.0	3.33	µg/kg (ppb)	12/4/2025
Prallethrin	<LOD	25.0	10.0	µg/kg (ppb)	12/4/2025	Propiconazole	<LOD	20.0	5.00	µg/kg (ppb)	12/4/2025
Propoxur	<LOD	10.0	3.33	µg/kg (ppb)	12/4/2025	Pyrethrins	<LOD	10.0	3.33	µg/kg (ppb)	12/4/2025
Pyridaben	<LOD	10.0	3.33	µg/kg (ppb)	12/4/2025	Spinetoram	<LOD	10.0	3.33	µg/kg (ppb)	12/4/2025
Spinosad A	<LOD	10.0	3.33	µg/kg (ppb)	12/4/2025	Spinosad D	<LOD	10.0	3.33	µg/kg (ppb)	12/4/2025
Spiromesifen	<LOD	10.0	3.33	µg/kg (ppb)	12/4/2025	Spirotetramat	<LOD	10.0	3.33	µg/kg (ppb)	12/4/2025
Spiroxamine	<LOD	10.0	3.33	µg/kg (ppb)	12/4/2025	Tebuconazole	<LOD	10.0	3.33	µg/kg (ppb)	12/4/2025
Thiacloprid	<LOD	10.0	3.33	µg/kg (ppb)	12/4/2025	Thiamethoxam	<LOD	10.0	3.33	µg/kg (ppb)	12/4/2025
Trifloxystrobin	<LOD	10.0	3.33	µg/kg (ppb)	12/4/2025						

Method: Pesticides by LC/MS/MS (Agilent App - Determination of Pesticides and Mycotoxins)



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Analysis	Result	LOQ	LOD	Units	Analyzed	Analysis	Result	LOQ	LOD	Units	Analyzed
(+/-)-2-Butanol	<LOD	10.0	2.50	mg/kg (ppm)	12/5/2025	1,1-Dichloroethene	<LOD	5.00	1.00	mg/kg (ppm)	12/5/2025
1,2-Dichloroethane	<LOD	1.00	0.500	mg/kg (ppm)	12/5/2025	1,2-Dimethoxyethane	<LOD	10.0	2.50	mg/kg (ppm)	12/5/2025
1,4-Dioxane	<LOD	25.0	5.00	mg/kg (ppm)	12/5/2025	1-Butanol	<LOD	50.0	10.0	mg/kg (ppm)	12/5/2025
1-Pentanol	<LOD	100	25.0	mg/kg (ppm)	12/5/2025	1-Propanol	<LOD	100	25.0	mg/kg (ppm)	12/5/2025
2,2-Dimethylbutane	<LOD	25.0	5.00	mg/kg (ppm)	12/5/2025	2,3-Dimethylbutane	<LOD	25.0	5.00	mg/kg (ppm)	12/5/2025
2-Ethoxyethanol	<LOD	25.0	5.00	mg/kg (ppm)	12/5/2025	2-Methoxyethanol	<LOD	50.0	10.0	mg/kg (ppm)	12/5/2025
2-Methyl-1-propanol	<LOD	100	25.0	mg/kg (ppm)	12/5/2025	2-Methylbutane (Isopentane)	<LOD	75.0	15.0	mg/kg (ppm)	12/5/2025
2-Methylpentane	<LOD	25.0	5.00	mg/kg (ppm)	12/5/2025	2-Propanol	<LOD	50.0	10.0	mg/kg (ppm)	12/5/2025
3-Methyl-1-Butanol	<LOD	100	25.0	mg/kg (ppm)	12/5/2025	3-Methylpentane	<LOD	25.0	5.00	mg/kg (ppm)	12/5/2025
Acetone	<LOD	50.0	10.0	mg/kg (ppm)	12/5/2025	Acetonitrile	<LOD	50.0	10.0	mg/kg (ppm)	12/5/2025
Anisole	<LOD	50.0	10.0	mg/kg (ppm)	12/5/2025	Benzene	<LOD	0.500	0.250	mg/kg (ppm)	12/5/2025
Butyl Acetate	<LOD	50.0	10.0	mg/kg (ppm)	12/5/2025	Chloroform	<LOD	1.00	0.500	mg/kg (ppm)	12/5/2025
Cumene	<LOD	70.0	25.0	mg/kg (ppm)	12/5/2025	Cyclohexane	<LOD	50.0	10.0	mg/kg (ppm)	12/5/2025
Diethyl ether	<LOD	50.0	10.0	mg/kg (ppm)	12/5/2025	Ethanol	<LOD	50.0	10.0	mg/kg (ppm)	12/5/2025
Ethyl Acetate	<LOD	50.0	10.0	mg/kg (ppm)	12/5/2025	Ethyl benzene	<LOD	25.0	5.00	mg/kg (ppm)	12/5/2025
Ethyl Ether	<LOD	100	25.0	mg/kg (ppm)	12/5/2025	Ethylene Glycol	<LOD	100	25.0	mg/kg (ppm)	12/5/2025
Ethylene Oxide	<LOD	1.00	0.500	mg/kg (ppm)	12/5/2025	Formamide	<LOD	50.0	10.0	mg/kg (ppm)	12/5/2025
Heptane	<LOD	50.0	10.0	mg/kg (ppm)	12/5/2025	Hexane	<LOD	2.00	0.500	mg/kg (ppm)	12/5/2025
Isobutane	<LOD	100	25.0	mg/kg (ppm)	12/5/2025	Isobutyl acetate	<LOD	50.0	10.0	mg/kg (ppm)	12/5/2025
Isopropyl acetate	<LOD	10.0	2.50	mg/kg (ppm)	12/5/2025	Methanol	<LOD	50.0	10.0	mg/kg (ppm)	12/5/2025
Methyl Acetate	<LOD	100	25.0	mg/kg (ppm)	12/5/2025	Methylbutyl Ketone	<LOD	25.0	5.00	mg/kg (ppm)	12/5/2025
Methylene Chloride	<LOD	1.00	0.500	mg/kg (ppm)	12/5/2025	Methylethyl Ketone	<LOD	50.0	10.0	mg/kg (ppm)	12/5/2025
Methylisobutyl Ketone	<LOD	100	25.0	mg/kg (ppm)	12/5/2025	N,N-Dimethylacetamide	<LOD	100	25.0	mg/kg (ppm)	12/5/2025
N,N-Dimethylformamide	<LOD	10.0	2.50	mg/kg (ppm)	12/5/2025	n-Butane	<LOD	100	25.0	mg/kg (ppm)	12/5/2025
Neopentane	<LOD	100	25.0	mg/kg (ppm)	12/5/2025	Nitromethane	<LOD	25.0	5.00	mg/kg (ppm)	12/5/2025
N-Methylpyrrolidone	<LOD	50.0	10.0	mg/kg (ppm)	12/5/2025	Pentane	<LOD	50.0	10.0	mg/kg (ppm)	12/5/2025
Propane	<LOD	100	25.0	mg/kg (ppm)	12/5/2025	Propyl Acetate	<LOD	50.0	10.0	mg/kg (ppm)	12/5/2025
Pyridine	<LOD	10.0	2.50	mg/kg (ppm)	12/5/2025	Sulfolane	<LOD	100	25.0	mg/kg (ppm)	12/5/2025
Tert-Butylmethyl Ether	<LOD	50.0	10.0	mg/kg (ppm)	12/5/2025	Tetrahydrofuran	<LOD	10.0	2.50	mg/kg (ppm)	12/5/2025
Tetralin	<LOD	10.0	2.50	mg/kg (ppm)	12/5/2025	Toluene	<LOD	1.00	0.500	mg/kg (ppm)	12/5/2025
Trichloroethene	<LOD	1.00	0.500	mg/kg (ppm)	12/5/2025	Xylenes (p-, m-, o-)	<LOD	40.0	10.0	mg/kg (ppm)	12/5/2025

Method: Residual Solvents by Headspace GC/MS (VF-624MS)

Reported By Jake S Hedges, Chemistry Laboratory Supervisor, 12/8/2025