11455 Pearl St Northglenn, CO 80233 (303) 296-0264

MURRAY-BROWN LABORATORIES, INC.
Beyond the Raw Data

Certificate of Analysis for

Balanced Health Botanicals
1500 W Hampden Ave, Unit 5G
Sheridan, CO 80110



CDPHE: SHH2555

3250770 - 33mg/mL Isolate Tincture Matrix: Tincture (Oil)

Received: 3/27/2025 @ 28.3 °C

Sample ID: 2503C71-001

Analysis	Result	LOQ	LOD	Units	Analyzed	Analysis	Result	LOQ	LOD	Units	Analyzed
Aspergillus flavus	Absent	1	1	CFU/1 g	4/1/2025	Aspergillus fumigatus	Absent	1	1	CFU/1 g	4/1/2025
Aspergillus niger	Absent	1	1	CFU/1 g	4/1/2025	Aspergillus tereus	Absent	1	1	CFU/1 g	4/1/2025

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

Analysis	Result	LOQ	LOD	Units	Analyzed	Analysis	Result	LOQ	LOD	Units	Analyzed
Water Activity	0.269	0.100	0.0500	aW	4/1/2025	**Method: aW via AquaLab Tunable Diode Laser Methods**					

Analysis	Result	LOQ	LOD	Units	Analyzed	Analysis	Result	LOQ	LOD	Units	Analyzed
Cannabichromene (CBC)	<LOD	0.00740	0.00370	mg/mL	3/31/2025	Cannabicitran (CBT)	<LOD	0.00740	0.00370	mg/mL	3/31/2025
Cannabidiol (CBD)	35.6	0.00740	0.00370	mg/mL	3/31/2025	Cannabidiolic Acid (CBDA)	<LOD	0.00740	0.00370	mg/mL	3/31/2025
Cannabidivarin (CBDV)	< 0.100	0.00740	0.00370	mg/mL	3/31/2025	Cannabigerol (CBG)	<LOD	0.00740	0.00370	mg/mL	3/31/2025
Cannabinol (CBN)	<LOD	0.00740	0.00370	mg/mL	3/31/2025	Delta - 9 THC (THC)	<LOD	0.00740	0.00370	mg/mL	3/31/2025
Delta 9 - Tetrahydrocannabinolic Acid (THCA-A)	<LOD	0.00740	0.00370	mg/mL	3/31/2025	Potential CBD	3.56	NA	NA	% (g/100mL)	3/31/2025
Potential THC	<LOD	NA	NA	% (g/100mL)	3/31/2025	Tetrahydrocannabivarin (THCV)	<LOD	0.00740	0.00370	mg/mL	3/31/2025

Method: Cannabinoids via MBL-HPLC2

Analysis	Result	LOQ	LOD	Units	Analyzed	Analysis	Result	LOQ	LOD	Units	Analyzed
Escherichia coli	<LOD	10	10	CFU/g	4/1/2025	**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	4/1/2025	**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	4/1/2025	**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	4/1/2025	Shiga toxin-producing E. coli (stx)	Absent	1	1	CFU/25 g	4/1/2025

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)	4/1/2025	Cadmium (Cd)	<LOD	0.0100	0.00510	mg/kg (ppm)	4/1/2025
Lead (Pb)	<LOD	0.00500	0.00170	mg/kg (ppm)	4/1/2025	Mercury (Hg)	<LOQ	0.00500	0.00180	mg/kg (ppm)	4/1/2025

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	4/1/2025	**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)	4/1/2025	Aflatoxin B2	<LOD	10.0	2.50	µg/kg (ppb)	4/1/2025
Aflatoxin G1	<LOD	10.0	2.50	µg/kg (ppb)	4/1/2025	Aflatoxin G2	<LOD	10.0	2.50	µg/kg (ppb)	4/1/2025
Ochratoxin A	<LOD	20.0	5.00	µg/kg (ppb)	4/1/2025	**Method: Mycotoxins by LC-MS**					

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Abamectin (B1a + B1b)	<LOD	25.0	10.0	µg/kg (ppb)	4/1/2025	Acephate	<LOD	10.0	3.33	µg/kg (ppb)	4/1/2025
Acequinocyl	<LOD	10.0	3.33	µg/kg (ppb)	4/1/2025	Acetamiprid	<LOD	10.0	3.33	µg/kg (ppb)	4/1/2025
Aldicarb	<LOD	10.0	3.33	µg/kg (ppb)	4/1/2025	Azoxystrobin	<LOD	10.0	3.33	µg/kg (ppb)	4/1/2025
Bifenazate	<LOD	10.0	3.33	µg/kg (ppb)	4/1/2025	Bifenthrin	<LOD	10.0	3.33	µg/kg (ppb)	4/1/2025
Boscalid	<LOD	10.0	3.33	µg/kg (ppb)	4/1/2025	Carbaryl	<LOD	10.0	3.33	µg/kg (ppb)	4/1/2025
Carbofuran	<LOD	10.0	3.33	µg/kg (ppb)	4/1/2025	Chlorantraniliprole	<LOD	10.0	3.33	µg/kg (ppb)	4/1/2025
Chlorfenapyr	<LOD	50.0	20.0	µg/kg (ppb)	4/1/2025	Chlorpyrifos	<LOD	10.0	3.33	µg/kg (ppb)	4/1/2025
Clofentezine	<LOD	10.0	3.33	µg/kg (ppb)	4/1/2025	Coumaphos	<LOD	10.0	3.33	µg/kg (ppb)	4/1/2025
Cyfluthrin (Baythroid)	<LOD	50.0	20.0	µg/kg (ppb)	4/1/2025	Cypermethrin	<LOD	25.0	10.0	µg/kg (ppb)	4/1/2025
Daminozide	<LOD	25.0	10.0	µg/kg (ppb)	4/1/2025	Diazinon	<LOD	10.0	3.33	µg/kg (ppb)	4/1/2025
Dibrom (Naled)	<LOD	10.0	3.33	µg/kg (ppb)	4/1/2025	Dichlorvos	<LOD	10.0	3.33	µg/kg (ppb)	4/1/2025
Dimethoate	<LOD	10.0	3.33	µg/kg (ppb)	4/1/2025	Dimethomorph	<LOD	10.0	3.33	µg/kg (ppb)	4/1/2025
Ethofenprox	<LOD	10.0	3.33	µg/kg (ppb)	4/1/2025	Ethoprophos (Prophos)	<LOD	10.0	3.33	µg/kg (ppb)	4/1/2025
Etoxazole	<LOD	10.0	3.33	µg/kg (ppb)	4/1/2025	Fenhexamid	<LOD	10.0	3.33	µg/kg (ppb)	4/1/2025
Fenoxycarb	<LOD	10.0	3.33	µg/kg (ppb)	4/1/2025	Fenpyroximate	<LOD	10.0	3.33	µg/kg (ppb)	4/1/2025
Fipronil	<LOD	10.0	3.33	µg/kg (ppb)	4/1/2025	Flonicamid	<LOD	10.0	3.33	µg/kg (ppb)	4/1/2025
Fludioxonil	<LOD	10.0	3.33	µg/kg (ppb)	4/1/2025	Hexythiazox	<LOD	10.0	3.33	µg/kg (ppb)	4/1/2025
Imazalil	<LOD	10.0	3.33	µg/kg (ppb)	4/1/2025	Imidacloprid	<LOD	10.0	3.33	µg/kg (ppb)	4/1/2025
Kresoxim Methyl	<LOD	10.0	3.33	µg/kg (ppb)	4/1/2025	Malathion	<LOD	10.0	3.33	µg/kg (ppb)	4/1/2025
Metalaxyl	<LOD	10.0	3.33	µg/kg (ppb)	4/1/2025	Methiocarb	<LOD	10.0	3.33	µg/kg (ppb)	4/1/2025
Methomyl	<LOD	10.0	3.33	µg/kg (ppb)	4/1/2025	Oxamyl	<LOD	10.0	3.33	µg/kg (ppb)	4/1/2025
Paclobutrazol	<LOD	10.0	3.33	µg/kg (ppb)	4/1/2025	Permethrins	<LOD	10.0	3.33	µg/kg (ppb)	4/1/2025
Phosdrin (Mevinphos)	<LOD	50.0	10.0	µg/kg (ppb)	4/1/2025	Phosmet	<LOD	25.0	2.50	µg/kg (ppb)	4/1/2025
Piperonyl Butoxide	<LOD	10.0	3.33	µg/kg (ppb)	4/1/2025	Prallethrin	<LOD	25.0	10.0	µg/kg (ppb)	4/1/2025
Propiconazol	<LOD	20.0	5.00	µg/kg (ppb)	4/1/2025	Propoxur	<LOD	10.0	3.33	µg/kg (ppb)	4/1/2025
Pyrethrins	<LOD	10.0	3.33	µg/kg (ppb)	4/1/2025	Pyridaben	<LOD	10.0	3.33	µg/kg (ppb)	4/1/2025
Spinetoram	<LOD	10.0	3.33	µg/kg (ppb)	4/1/2025	Spinosad A	<LOD	10.0	3.33	µg/kg (ppb)	4/1/2025
Spinosad D	<LOD	10.0	3.33	µg/kg (ppb)	4/1/2025	Spiromesifen	<LOD	10.0	3.33	µg/kg (ppb)	4/1/2025
Spirotetramat	<LOD	10.0	3.33	µg/kg (ppb)	4/1/2025	Spiroxamine	<LOD	10.0	3.33	µg/kg (ppb)	4/1/2025
Systhane (Myclobutanil)	<LOD	10.0	3.33	µg/kg (ppb)	4/1/2025	Tebuconazol (Folicur)	<LOD	10.0	3.33	µg/kg (ppb)	4/1/2025
Thiacloprid	<LOD	10.0	3.33	µg/kg (ppb)	4/1/2025	Thiamethoxam	<LOD	10.0	3.33	µg/kg (ppb)	4/1/2025
Trifloxystrobin	<LOD	10.0	3.33	µg/kg (ppb)	4/1/2025	**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)	4/2/2025	1,1-Dichloroethene	<LOD	5.00	1.00	mg/kg (ppm)	4/2/2025
1,2-Dichloroethane	<LOD	1.00	0.500	mg/kg (ppm)	4/2/2025	1,2-Dimethoxyethane	<LOD	10.0	2.50	mg/kg (ppm)	4/2/2025
1,4-Dioxane	<LOD	25.0	5.00	mg/kg (ppm)	4/2/2025	1-Butanol	<LOD	50.0	10.0	mg/kg (ppm)	4/2/2025
1-Pentanol	<LOD	100	25.0	mg/kg (ppm)	4/2/2025	1-Propanol	<LOD	100	25.0	mg/kg (ppm)	4/2/2025
2,2-Dimethylbutane	<LOD	25.0	5.00	mg/kg (ppm)	4/2/2025	2,3-Dimethylbutane	<LOD	25.0	5.00	mg/kg (ppm)	4/2/2025
2-Ethoxyethanol	<LOD	25.0	5.00	mg/kg (ppm)	4/2/2025	2-Methoxyethanol	<LOD	50.0	10.0	mg/kg (ppm)	4/2/2025
2-Methyl-1-propanol	<LOD	100	25.0	mg/kg (ppm)	4/2/2025	2-Methylbutane (Isopentane)	<LOD	75.0	15.0	mg/kg (ppm)	4/2/2025
2-Methylpentane	<LOD	25.0	5.00	mg/kg (ppm)	4/2/2025	2-Propanol	<LOD	50.0	10.0	mg/kg (ppm)	4/2/2025
3-Methyl-1-Butanol	<LOD	100	25.0	mg/kg (ppm)	4/2/2025	3-Methylpentane	<LOD	25.0	5.00	mg/kg (ppm)	4/2/2025
Acetone	<LOD	50.0	10.0	mg/kg (ppm)	4/2/2025	Acetonitrile	<LOD	50.0	10.0	mg/kg (ppm)	4/2/2025
Anisole	<LOD	50.0	10.0	mg/kg (ppm)	4/2/2025	Benzene	<LOD	0.500	0.250	mg/kg (ppm)	4/2/2025
Butyl Acetate	<LOD	50.0	10.0	mg/kg (ppm)	4/2/2025	Chloroform	<LOD	1.00	0.500	mg/kg (ppm)	4/2/2025
Cumene	<LOD	70.0	25.0	mg/kg (ppm)	4/2/2025	Cyclohexane	<LOD	50.0	10.0	mg/kg (ppm)	4/2/2025
Diethyl ether	<LOD	50.0	10.0	mg/kg (ppm)	4/2/2025	Ethanol	<LOD	50.0	10.0	mg/kg (ppm)	4/2/2025
Ethyl Acetate	<LOD	50.0	10.0	mg/kg (ppm)	4/2/2025	Ethyl benzene	<LOD	25.0	5.00	mg/kg (ppm)	4/2/2025
Ethyl Ether	<LOD	100	25.0	mg/kg (ppm)	4/2/2025	Ethylene Glycol	<LOD	100	25.0	mg/kg (ppm)	4/2/2025
Ethylene Oxide	<LOD	1.00	0.500	mg/kg (ppm)	4/2/2025	Formamide	<LOD	50.0	10.0	mg/kg (ppm)	4/2/2025
Heptane	<LOD	50.0	10.0	mg/kg (ppm)	4/2/2025	Hexane	<LOD	2.00	0.500	mg/kg (ppm)	4/2/2025
Isobutane	<LOD	100	25.0	mg/kg (ppm)	4/2/2025	Isobutyl acetate	<LOD	50.0	10.0	mg/kg (ppm)	4/2/2025
Isopropyl acetate	<LOD	10.0	2.50	mg/kg (ppm)	4/2/2025	Methanol	<LOD	50.0	10.0	mg/kg (ppm)	4/2/2025
Methyl Acetate	<LOD	100	25.0	mg/kg (ppm)	4/2/2025	Methylbutyl Ketone	<LOD	25.0	5.00	mg/kg (ppm)	4/2/2025
Methylene Chloride	<LOD	1.00	0.500	mg/kg (ppm)	4/2/2025	Methylethyl Ketone	<LOD	50.0	10.0	mg/kg (ppm)	4/2/2025
Methylisobutyl Ketone	<LOD	100	25.0	mg/kg (ppm)	4/2/2025	N,N-Dimethylacetamide	<LOD	100	25.0	mg/kg (ppm)	4/2/2025
N,N-Dimethylformamide	<LOD	10.0	2.50	mg/kg (ppm)	4/2/2025	n-Butane	<LOD	100	25.0	mg/kg (ppm)	4/2/2025
Neopentane	<LOD	100	25.0	mg/kg (ppm)	4/2/2025	Nitromethane	<LOD	25.0	5.00	mg/kg (ppm)	4/2/2025
N-Methylpyrrolidone	<LOD	50.0	10.0	mg/kg (ppm)	4/2/2025	Pentane	<LOD	50.0	10.0	mg/kg (ppm)	4/2/2025
Propane	<LOD	100	25.0	mg/kg (ppm)	4/2/2025	Propyl Acetate	<LOD	50.0	10.0	mg/kg (ppm)	4/2/2025
Pyridine	<LOD	10.0	2.50	mg/kg (ppm)	4/2/2025	Sulfolane	<LOD	100	25.0	mg/kg (ppm)	4/2/2025
Tert-Butylmethyl Ether	<LOD	50.0	10.0	mg/kg (ppm)	4/2/2025	Tetrahydrofuran	<LOD	10.0	2.50	mg/kg (ppm)	4/2/2025
Tetralin	<LOD	10.0	2.50	mg/kg (ppm)	4/2/2025	Toluene	<LOD	1.00	0.500	mg/kg (ppm)	4/2/2025
Trichloroethene	<LOD	1.00	0.500	mg/kg (ppm)	4/2/2025	Xylenes (p-, m-, o-)	<LOD	40.0	10.0	mg/kg (ppm)	4/2/2025

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

Reported By: Jake S Hedges, Chemistry Laboratory Supervisor, 4/8/2025

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