11455 Pearl St Northglenn, CO 80233 (303) 296-026

MURRAY-BROWN LABORATORIES, INC.
Beyond the Raw Data

Certificate of Analysis for

Kats Botanicals
750 Hickory Industrial Drive
Old Hickory, TN 37138

Received: 2/12/2026 @ 20.3 °C
Report ID: 2602658

Sample ID: 2602658-002 1500mg - Kava - Tincture - Natural - BTT000326

ACR.1a: AC by mass via AOAC 2015.13 (Petrifilm™) Analyzed 02/12/26

Aerobic Plate Count	< 10	CFU/g

CCR.1a: CC by mass via AOAC OM 2018.13 (Petrifilm™) Analyzed 02/12/26

Total Coliform Bacteria	< 10	CFU/g

ECR.1a: EC by mass via AOAC OM 2018.13 (Petrifilm™) Analyzed 02/12/26

Escherichia coli	< 10	CFU/g

ICPMS.1: Metals via AOAC 2015.01 Modified (ICP/MS) Analyzed 02/16/26

Arsenic (As)	< 0.0200	mg/kg (ppm)	Cadmium (Cd)	< 0.0100	mg/kg (ppm)
Lead (Pb)	< 0.00500	mg/kg (ppm)	Mercury (Hg)	< 0.00500	mg/kg (ppm)

Kava.1: USP - Content of Kavalactones by HPLC Analyzed 02/12/26

Desmethoxyyangonin	5.82	mg/mL	Dihydrokawain	13.9	mg/mL
Dihydromethysticin	4.83	mg/mL	Kawain	16.3	mg/mL
Methysticin	4.97	mg/mL	Total Kavalactones	51.7	mg/mL
Yangonin	5.84	mg/mL			

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Pest.1: Pesticides by LC/MS/MS (Agilent App - Determination of Pesticides and Mycotoxins) Analyzed 02/12/26

Abamectin	< 50.0	µg/kg (ppb)	Acephate	< 25.0	µg/kg (ppb)
Acequinocyl	< 10.0	µg/kg (ppb)	Acetamiprid	< 10.0	µg/kg (ppb)
Aldicarb	< 10.0	µg/kg (ppb)	Azoxystrobin	< 10.0	µg/kg (ppb)
Bifenazate	< 50.0	µg/kg (ppb)	Bifenthrin	< 10.0	µg/kg (ppb)
Boscalid	< 50.0	µg/kg (ppb)	Carbaryl	< 25.0	µg/kg (ppb)
Carbofuran	< 25.0	µg/kg (ppb)	Chlorantraniliprole	< 25.0	µg/kg (ppb)
Chlorfenapyr	< 100	µg/kg (ppb)	Chlorpyrifos	< 10.0	µg/kg (ppb)
Clofentezine	< 10.0	µg/kg (ppb)	Coumaphos	< 10.0	µg/kg (ppb)
Cyfluthrin	< 50.0	µg/kg (ppb)	Cypermethrin	< 50.0	µg/kg (ppb)
Daminozide	< 25.0	µg/kg (ppb)	Diazinon	< 10.0	µg/kg (ppb)
Dichlorvos	< 50.0	µg/kg (ppb)	Dimethoate	< 25.0	µg/kg (ppb)
Dimethomorph	< 25.0	µg/kg (ppb)	Ethoprophos	< 25.0	µg/kg (ppb)
Etofenprox	< 10.0	µg/kg (ppb)	Etoxazole	< 25.0	µg/kg (ppb)
Fenhexamid	< 50.0	µg/kg (ppb)	Fenoxycarb	< 10.0	µg/kg (ppb)
Fenpyroximate	< 25.0	µg/kg (ppb)	Fipronil	< 10.0	µg/kg (ppb)
Flonicamid	< 25.0	µg/kg (ppb)	Fludioxonil	< 25.0	µg/kg (ppb)
Hexythiazox	< 10.0	µg/kg (ppb)	Imazalil	< 50.0	µg/kg (ppb)
Imidacloprid	< 10.0	µg/kg (ppb)	Kresoxim-methyl	< 10.0	µg/kg (ppb)
Malathion	< 100	µg/kg (ppb)	Metalaxyl	< 25.0	µg/kg (ppb)
Methiocarb	< 50.0	µg/kg (ppb)	Methomyl	< 25.0	µg/kg (ppb)
Mevinphos	< 50.0	µg/kg (ppb)	Myclobutanil	< 50.0	µg/kg (ppb)
Naled	< 50.0	µg/kg (ppb)	Oxamyl	< 10.0	µg/kg (ppb)
Paclobutrazol	< 25.0	µg/kg (ppb)	Permethrin	< 10.0	µg/kg (ppb)
Phosmet	< 10.0	µg/kg (ppb)	Piperonyl Butoxide	< 10.0	µg/kg (ppb)
Prallethrin	< 25.0	µg/kg (ppb)	Propiconazol	< 25.0	µg/kg (ppb)
Propoxur	< 25.0	µg/kg (ppb)	Pyrethrins	< 50.0	µg/kg (ppb)
Pyridaben	< 10.0	µg/kg (ppb)	Spinetoram	< 25.0	µg/kg (ppb)
Spinosad A	< 10.0	µg/kg (ppb)	Spinosad D	< 50.0	µg/kg (ppb)
Spiromesifen	< 25.0	µg/kg (ppb)	Spirotetramat	< 25.0	µg/kg (ppb)
Spiroxamine	< 25.0	µg/kg (ppb)	Tebuconazole	< 25.0	µg/kg (ppb)
Thiacloprid	< 25.0	µg/kg (ppb)	Thiamethoxam	< 25.0	µg/kg (ppb)
Trifloxystrobin	< 10.0	µg/kg (ppb)			

ResSolv.1: Residual Solvents by Headspace GC/MS Analyzed 02/17/26

1,2-Dichloroethane	< 1.00	mg/kg (ppm)	2-Propanol	< 50.0	mg/kg (ppm)
Acetone	< 50.0	mg/kg (ppm)	Acetonitrile	< 50.0	mg/kg (ppm)
Benzene	< 0.500	mg/kg (ppm)	Chloroform	< 1.00	mg/kg (ppm)
Cyclohexane	< 50.0	mg/kg (ppm)	Diethyl ether	< 50.0	mg/kg (ppm)
Ethanol	< 50.0	mg/kg (ppm)	Ethyl Acetate	< 50.0	mg/kg (ppm)
Heptane	< 50.0	mg/kg (ppm)	Hexane	< 2.00	mg/kg (ppm)
Methanol	< 50.0	mg/kg (ppm)	Methylene Chloride	< 1.00	mg/kg (ppm)
N,N-Dimethylformamide	< 10.0	mg/kg (ppm)	Pentane	< 50.0	mg/kg (ppm)
Toluene	< 1.00	mg/kg (ppm)	Trichloroethene	< 50.0	mg/kg (ppm)
Xylenes (p-, m-, o-)	< 40.0	mg/kg (ppm)			

Salm.1: Salmonella via AOAC 081201, 2013.02 (BAX® PCR) Analyzed 02/12/26

Salmonella spp.	Negative	/25 g

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STA.1a: S. aureus by mass via AOAC 2003.07, 2003.08, 2003.11 (Petrifilm™) Analyzed 02/12/26

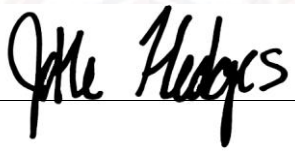
Staphylococcus aureus	< 10	CFU/g

STEC.1: E. coli (O157:H7, O26, O45, O103, O111, O121, O145) via AOAC 091301 (BAX® PCR, STEC Screen) Analyzed 02/12/26

Shiga toxin-producing E. coli (stx-eae)	Negative	/25 g

YM.1a: YM by mass via AOAC RI 121301 (Petrifilm™) Analyzed 02/12/26

Yeast and Mold	< 10	CFU/g



Reported By Jake S Hedges, Chemistry Laboratory Supervisor, 2/18/2026

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