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: 2602658-001 50mg - Kava - Gummy - Mixed Berry - AGG023425

### 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) | < 0.0200 | mg/kg (ppm) | Mercury (Hg) | < 0.00500 | mg/kg (ppm) |

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

| | | | | | |
|---|---|---|---|---|---|
| Desmethoxyyangonin | 5.80 | mg/gummy | Dihydrokawain | 13.4 | mg/gummy |
| Dihydromethysticin | 5.14 | mg/gummy | Kawain | 15.2 | mg/gummy |
| Methysticin | 4.74 | mg/gummy | Total Kavalactones | 51.3 | mg/gummy |
| Yangonin | 7.01 | mg/gummy | | | |

### Moisture.3: Moisture via AOAC 950.46 (Loss on Drying) Analyzed 02/17/26

| | | |
|---|---|---|
| Moisture | 11.5 | g/100 g (%) |

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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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Original

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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 |

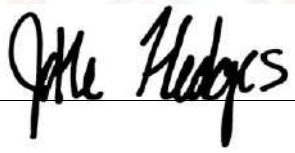
**STEC.1: E. coli (O157:H7, O26, O45, O103, O111, O121, O145) via AOAC 091301 (BAX® PCR, STEC Screen) Analyzed 02/12/26**

| | | |
|---|---|---|
| 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 |

Gummy Mass (Provided by Client): 3.6 g



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

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