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

MURRAY-BROWN LABORATORIES, INC.
Beyond the Raw Data

# Certificate of Analysis for

Club 13 Enterprises
8165 State Rd 207
Hastings, FL 32145
Phone: (877) 922-5783




Received: 7/28/2026 @ 22 °C

## Club13 215mit Liquid Extract Lot: AN48

**Sample ID:** 2607F50-001

### ACR.1a: AC by mass via AOAC 2015.13 (Petrifilm™) Analyzed 07/28/26

| | | |
|---|---|---|
| Aerobic Plate Count | < 10 | CFU/g |

### CCR.1a: CC by mass via AOAC OM 2018.13 (Petrifilm™) Analyzed 07/28/26

| | | |
|---|---|---|
| Total Coliform Bacteria | < 10 | CFU/g |

### ECR.1a: EC by mass via AOAC OM 2018.13 (Petrifilm™) Analyzed 07/28/26

| | | |
|---|---|---|
| Escherichia coli | < 10 | CFU/g |

### GU Pro STEC SLM.2: STEC Salmonella via AOAC PTM 092101 Analyzed 07/30/26

| | | | | | |
|---|---|---|---|---|---|
| Salmonella spp. | Absent | CFU/25 g | Shiga toxin-producing E. coli | Absent | CFU/25 g |

### ICPMS.1: Metals via AOAC 2015.01 Modified (ICP/MS) Analyzed 08/03/26

| | | | | | |
|---|---|---|---|---|---|
| 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) |

### KRA.2: 7-Hydroxymitragynine by LC-MS/MS Analyzed 07/30/26

| | | |
|---|---|---|
| 7-Hydroxymitragynine | 3.52 | ppm |

### MIT.2: Kratom Alkaloids by HPLC-UV via AOAC 2017.14 (Modified) Analyzed 07/29/26

| | | | | | |
|---|---|---|---|---|---|
| Isorhynchophylline | < 1.08 | mg/mL | Mitragynine | 16.4 | mg/mL |
| Mitraphylline | < 1.08 | mg/mL | Paynantheine | 2.26 | mg/mL |
| Speciociliatine | 1.44 | mg/mL | Speciogynine | 1.33 | mg/mL |
| Total Alkaloids | 21.4 | mg/mL | | | |

### ResSolv.1: Residual Solvents by Headspace GC/MS Analyzed 08/05/26

| | | | | | |
|---|---|---|---|---|---|
| 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 | 96,200 | 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) | | | |

### STA.1a: S. aureus by mass via AOAC 2003.07, 2003.08, 2003.11 (Petrifilm™) Analyzed 07/28/26

| | | |
|---|---|---|
| Staphylococcus aureus | < 10 | CFU/g |

### YM.1a: YM by mass via AOAC RI 121301 (Petrifilm™) Analyzed 07/28/26

| | | |
|---|---|---|
| Yeast and Mold | < 10 | CFU/g |

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Original

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Reported By Jake S Hedges, Operations Manager, 8/6/2026

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Original