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

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: 4/15/2025 @ 15.6 °C
Report ID: 2504637

Sample ID: 2504637-010 Club13 150mit Liquid Extract Lot AI66

ACR.1a: AC by mass via AOAC 2015.13 (Petrifilm™) Analyzed 04/15/25

Aerobic Plate Count	< 10	CFU/g

CCR.1a: CC by mass via AOAC OM 2018.13 (Petrifilm™) Analyzed 04/15/25

Total Coliform Bacteria	< 10	CFU/g

ECR.1a: EC by mass via AOAC OM 2018.13 (Petrifilm™) Analyzed 04/15/25

Escherichia coli	< 10	CFU/g

GU Pro STEC SLM.2: STEC Salmonella via AOAC PTM 092101 Analyzed 04/15/25

Salmonella spp.	Absent	CFU/100 g	Shiga toxin-producing E. coli (stx)	Absent	CFU/100 g

ICPMS.1Metals via AOAC 2015.01 Modified (ICP/MS) Analyzed 04/22/25

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)

MIT.2: Kratom Alkaloids via HPLC-DAD Analyzed 04/17/25

7-Hydroxymitragynine	< 200	ppm	Isorhynchophylline	< 0.100	mg/mL
Mitragynine	14.8	mg/mL	Mitraphylline	< 0.100	mg/mL
Paynantheine	2.09	mg/mL	Speciociliatine	1.31	mg/mL
Speciogynine	1.36	mg/mL	Total Alkaloids	19.6	mg/mL

ResSolv.1: Residual Solvents by Headspace GC/MS Analyzed 04/21/25

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	140,000	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 04/15/25

Staphylococcus aureus	< 10	CFU/g

YM.1a: YM by mass via AOAC RI 121301 (Petrifilm™) Analyzed 04/15/25

Yeast and Mold	< 10	CFU/g

This document is confidential and is meant solely for the individual or entity designated above. MBL Terms and Conditions apply.
This Certificate of Analysis should only be reproduced in full. Results contained herein are representative of and only apply to the sample portion submitted to or collected by MBL.

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

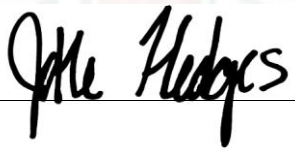
MURRAY-BROWN LABORATORIES, INC.
Beyond the Raw Data

Certificate of Analysis for

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

Received: 4/15/2025 @ 15.6 °C
Report ID: 2504637

Report ID 2504637 has been amended as follows: Unit for 7-Hydroxymitragynine was changed from mg/mL to ppm at the client's request.



Reported By Jake S Hedges, Chemistry Laboratory Supervisor, 8/28/2025

This document is confidential and is meant solely for the individual or entity designated above. MBL Terms and Conditions apply.
This Certificate of Analysis should only be reproduced in full. Results contained herein are representative of and only apply to the sample portion submitted to or collected by MBL.