

**Certificate of Analysis for**

Club 13 Enterprises
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Received: 8/28/2023 @ 23.8 °C
Report ID: 2308C20

Sample ID: 2308C20-001**Sample Description:** EXT300825-BB**ICPMS.1: Metals via FDA - EAM:2008 (ICP/MS) Analyzed 09/01/23**

Arsenic (As)	0.108	mg/kg (ppm)	Cadmium (Cd)	< 0.010	mg/kg (ppm)
Lead (Pb)	0.118	mg/kg (ppm)	Mercury (Hg)	< 0.005	mg/kg (ppm)

MIT.2: Kratom Alkaloids via HPLC-DAD Analyzed 08/29/23

7-Hydroxymitragynine	< 0.100	%	Isorhynchophylline	< 0.100	%
Mitragynine	23.5	%	Mitraphylline	< 0.100	%
Paynantheine	6.23	%	Speciociliatine	15.8	%
Speciogyneine	4.55	%	Total Alkaloids	50.1	%

ResSolv.1: Residual Solvents by Headspace GC/MS (VF-624MS) Analyzed 08/28/23

1,2-Dichloroethane	< 2	mg/kg (ppm)	2-Propanol	< 50	mg/kg (ppm)
Acetone	< 50	mg/kg (ppm)	Acetonitrile	< 50	mg/kg (ppm)
Benzene	< 2	mg/kg (ppm)	Chloroform	< 50	mg/kg (ppm)
Cyclohexane	< 50	mg/kg (ppm)	Diethyl ether	< 50	mg/kg (ppm)
Ethanol	< 50	mg/kg (ppm)	Ethyl Acetate	< 50	mg/kg (ppm)
Heptane	< 50	mg/kg (ppm)	Hexane	< 50	mg/kg (ppm)
Methanol	675	mg/kg (ppm)	Methylene Chloride	< 50	mg/kg (ppm)
N,N-Dimethylformamide	< 10	mg/kg (ppm)	Pentane	< 50	mg/kg (ppm)
Toluene	< 50	mg/kg (ppm)	Trichloroethene	< 50	mg/kg (ppm)
Xylenes (p-, m-, o-)	< 50	mg/kg (ppm)			

Reported By:

Ryan Connelly, Chemistry Laboratory Manager, 9/1/2023