



Certificate of Analysis

19 APRIL 2024

FORMULA 2 / MITRAGYNINE / 8264



Client:	FYE LLC	SAMPLE SET:	178530
Sample Type:	Liquid	Prepped By:	Keith C.
Sample Weight:	200mg	Acquisition Method:	MIT-EVO_R2023-01
Dilution:	0.01	Testing ID:	GRD-MIT_160574.D
Vial:	Vial 26	Date Processed:	04/17/2024

ID/POTENCY

#	Analyte	RT (min)	Area (mAU*s)	Amt (µg/mL)	Alkaloid	Total
1	Mitragynine	14	2881	140	C ₂₃ H ₃₀ N ₂ O ₄	.140
2	7-Hydroxymitragynine	6	N/D	N/D	C ₂₃ H ₃₀ N ₂ O ₅	N/D
3	Paynantheine	10	381	19	C ₂₃ H ₂₈ N ₂ O ₄	0.02
4	Speciogynine	11	141	7	C ₂₃ H ₃₀ N ₂ O ₄	0.01
5	Speciociliatine	12	266	13	C ₂₃ H ₃₀ N ₂ O ₄	0.01

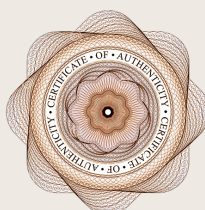
BIOLOGICAL

USP NF Total Viable Count				USP NF Total Yeast		USP NF Total Mold	
Sample	Lot #	Spec	Result	Spec	Result	Spec	Result
Formula 2	8264	<10k CFU/g	PASS	POS/NEG	NEG	POS/NEG	NEG

FDA(BAM)CH.4 Coliform				USP NF E. Coli		USP NF Salmonella		USP NF Staphylococcus	
Sample	Lot #	Spec	Result	Spec	Result	Spec	Result	Spec	Result
Formula 2	8264	<10k CFU/g	PASS	POS/NEG	NEG	POS/NEG	NEG	POS/NEG	NEG

HEAVY METALS

Product #	Lot #	Metals	Spec	Results
Formula 2	8264	Arsenic	< 10,000 ppb	20 ppb
		Cadmium	< 4,100 ppb	N/D
		Lead	< 900 ppb**	< 900 ppb**
		Mercury*	< 300 ppb	N/D



SEAL OF AUTHENTICITY

VERIFIED BY:

Quality Assurance:



USP HEAVY METALS LIMITS

* Methyl mercury is included in total Mercury. Method AOAC 993.14 is equivalent to method ICP-MS USP <730>.

** California's Proposition 65 set up overly restrictive limits for many natural plant materials in relation to lead. There are many plants that have higher levels of lead than is acceptable in the State of California. If your CA result comes back as a "HI-LEAD", you may be required to place notices on your material, or it may be a material that cannot technically be sold for consumption in the state of California.

United States Pharmacopeia (USP) Limit for Nutritional Supplements:

- Arsenic 3.000 ppm / 3000.000 ppb
- Cadmium 3.000 ppm / 3000.000 ppb
- Lead 10.000 ppm / 10000.000 ppb
- Mercury 3.000 ppm / 3000.000 ppb

California Proposition 65 Daily Limits for Heavy Metals:

- Arsenic 10 ppm / 10,000.000 ppb
- Cadmium 4.1 ppm / 4,1000.000 ppb
- Lead 0.5 ppm / 500.000 ppb
- Methyl Mercury 0.3 ppm / 300.000 ppb

For labels with a single daily dose of 500mg, the PPM in products cannot be higher than:

- Arsenic = 20.000 ppm / 20,000.000 ppb
- Cadmium = 8.000 ppm / 8,000.000 ppb
- Lead = 0.900 ppm / 900.000 ppb
- Mercury = 0.600 ppm / 600.000 ppb

FDA Tolerable Daily Diet Lead intake:

- Children <6 years old = 6.000 ppm / 6000.000 ppb
- Pregnant women = 25.000 ppm / 25000.000 ppb
- Adults = 75.000 ppm / 75000.000 ppb