

WONDERLAND LABS

Certificate of Analysis

11 JUNE 2024

KAVAHOL / KAVA / B52943



Client:	KAVAHOL	SAMPLE SET:	181780
Sample Type:	Liquid	Prepped By:	Keith C.
Sample Weight:	200mg	Acquisition Method:	MIT-EVO_R2023-01
Dilution:	0.1	Testing ID:	GRD-MIT_304485.D
Vial:	Vial 11	Date Processed:	06/10/2024

----- ID/POTENCY -----

#	Analyte	RT (min)	Area	Height	Kavalactone %	Kavalactone #
1	Methysticin	4.9	307	27	0.04	6
2	Dihydromethysticin	5.1	107	21	0.04	5
3	Kavain	5.9	498	42	0.11	4
4	Dihydrokavain	6.3	430	29	0.16	2
5	Yangonin	7.1	361	28	0.07	3
6	Desmethoxyyangonin	7.5	292	25	0.06	1

----- BIOLOGICAL -----

USP NF Total Viable Count				USP.NF Total Yeast		USP NF Total Mold	
Sample	Lot #	Spec	Result	Spec	Result	Spec	Result
Kavahol	B52943	500k 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
Kavahol	B52943	10k CFU/g	PASS	POS/NEG	NEG	POS/NEG	NEG	POS/NEG	NEG

----- HEAVY METALS -----

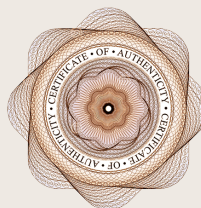
Product #	Lot #	Metals	Spec	Results
Kavahol	B52943	Arsenic	< 10,000 ppb	N/D
		Cadmium	< 4,100 ppb	30 ppb
		Lead	< 900 ppb**	N/D
		Mercury*	< 300 ppb	N/D

Kavalactone Content: **0.5%**
ZERO PERIOD FIVE PERCENT

Kavalactone Lineup: **2-4-3**

Heavy Metals: **PASS**

Biological: **PASS**



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 / 4,100.000 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