



## Certificate of Analysis for

Industrial Sonomechanics  
7440 SW 50th Terrace #110  
Miami, FL 33155  
Phone: (786) 233-9255

Received: 10/31/2023 @ 21.6 °C

Report ID: 2310D39

Sample ID	Analyzed	Sample Description	Analysis	Result	Units	Method Code
2310D39-001	11/3/2023	Kratom Extract	Arsenic (As)	< 0.020	mg/kg (ppm)	ICPMS.1
	11/3/2023		Cadmium (Cd)	< 0.010	mg/kg (ppm)	ICPMS.1
	11/3/2023		Lead (Pb)	< 0.005	mg/kg (ppm)	ICPMS.1
	11/3/2023		Mercury (Hg)	< 0.005	mg/kg (ppm)	ICPMS.1
	11/1/2023		7-Hydroxymitragynine	< 0.010	%	MIT.2
	11/1/2023		Isorhynchophylline	< 0.100	%	MIT.2
	11/1/2023		Mitragynine	9.79	%	MIT.2
	11/1/2023		Mitraphylline	< 0.100	%	MIT.2
	11/1/2023		Paynantheine	1.04	%	MIT.2
	11/1/2023		Speciociliatine	0.572	%	MIT.2
	11/1/2023		Speciogynine	0.737	%	MIT.2
	11/1/2023		Total Alkaloids	12.1	%	MIT.2
	11/6/2023	1,2-Dichloroethane	< 2	mg/kg (ppm)	ResSolv.1	
	11/6/2023	2-Propanol	< 50	mg/kg (ppm)	ResSolv.1	
	11/6/2023	Acetone	< 50	mg/kg (ppm)	ResSolv.1	
	11/6/2023	Acetonitrile	< 50	mg/kg (ppm)	ResSolv.1	
	11/6/2023	Benzene	< 2	mg/kg (ppm)	ResSolv.1	
	11/6/2023	Chloroform	< 50	mg/kg (ppm)	ResSolv.1	
	11/6/2023	Cyclohexane	< 50	mg/kg (ppm)	ResSolv.1	
	11/6/2023	Diethyl ether	< 50	mg/kg (ppm)	ResSolv.1	
	11/6/2023	Ethanol	< 50	mg/kg (ppm)	ResSolv.1	
	11/6/2023	Ethyl Acetate	< 50	mg/kg (ppm)	ResSolv.1	
	11/6/2023	Heptane	< 50	mg/kg (ppm)	ResSolv.1	
	11/6/2023	Hexane	< 50	mg/kg (ppm)	ResSolv.1	
	11/6/2023	Methanol	< 50	mg/kg (ppm)	ResSolv.1	
	11/6/2023	Methylene Chloride	< 50	mg/kg (ppm)	ResSolv.1	
	11/6/2023	N,N-Dimethylformamide	< 10	mg/kg (ppm)	ResSolv.1	
	11/6/2023	Pentane	< 50	mg/kg (ppm)	ResSolv.1	
	11/6/2023	Toluene	< 50	mg/kg (ppm)	ResSolv.1	
	11/6/2023	Trichloroethene	< 50	mg/kg (ppm)	ResSolv.1	
	11/6/2023	Xylenes (p-, m-, o-)	< 50	mg/kg (ppm)	ResSolv.1	
	11/10/2023	Salmonella spp.	Negative	/1 g	Salm.1	
	11/10/2023	Shiga toxin-producing E. coli	Negative	/1 g	STEC.1	
	10/31/2023	Aerobic Plate Count	< 10	CFU/g	ACR.1a	
	10/31/2023	Total Coliform Bacteria	< 10	CFU/g	CCR.1a	
	10/31/2023	Escherichia coli	< 10	CFU/g	ECR.1a	



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	10/31/2023		Staphylococcus aureus	< 10	CFU/g	STA.1a
	10/31/2023		Yeast and Mold	< 10	CFU/g	YM.1a

Reported By:

Riley Horner, Microbiology Laboratory Manager, 11/11/2023

## Methodology:

ACR.1a : AC by mass via AOAC 2015.13 (Petrifilm™) Prep: Quantitative Initial Dilution

ECR.1a : EC by mass via AOAC OM 2018.13 (Petrifilm™) Prep: Quantitative Initial Dilution

MIT.2 : Kratom Alkaloids via HPLC-DAD

Salm.1 : Salmonella via AOAC 081201, 2013.02 (BAX® PCR)

STEC.1 : E. coli (O157:H7, O26, O45, O103, O111, O121, O145) via AOAC 091301 (BAX® PCR, STEC Screen)

CCR.1a : CC by mass via AOAC OM 2018.13 (Petrifilm™) Prep: Quantitative Initial Dilution

ICPMS.1 : Metals via FDA - EAM:2008 (ICP/MS) Prep: Digestion, Microwave

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

STA.1a : S. aureus by mass via AOAC 2003.07, 2003.08, 2003.11 (Petrifilm™) Prep: Quantitative Initial Dilution

YM.1a : YM by mass via AOAC RI 121301 (Petrifilm™) Prep: Quantitative Initial Dilution