



Customer: Viable Solutions
 62 6 St N
 Nampa Idaho 83687
 United States of America (USA)

Sample ID: 11220305
Sample Matrix: Kratom powder
Laboratory ID: 22-005091-0001
Evidence of Cooling: No
Temp: 19.4 °C
Relinquished by: Fedex

Sample Results

Metals

Heavy Metals Profile K

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Arsenic	0.142	mg/kg	0.0187	05/09/22 AOAC 2013.06 (mod.) ₁	1.50	pass	
Cadmium	0.0248	mg/kg	0.0187	05/09/22 AOAC 2013.06 (mod.) ₁	0.500	pass	
Lead	0.276	mg/kg	0.0187	05/09/22 AOAC 2013.06 (mod.) ₁	1.00	pass	
Mercury	0.0115	mg/kg	0.00935	05/09/22 AOAC 2013.06 (mod.) ₁	0.200	pass	
Nickel	3.28	mg/kg	0.0187	05/09/22 AOAC 2013.06 (mod.) ₁	20.0	pass	

1) trace metals in food by Inductively Coupled Mass Spectrometry

Microbiology

Micro Profile L Rapid (M6000)

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	57,000	cfu/g	1,000	05/07/22 AOAC 990.12 (Petrifilm)	10,000,00	pass	
E.coli	< LOQ	cfu/g	100	05/07/22 AOAC 991.14 (Petrifilm)	100	pass	
Total Coliforms	100	cfu/g	100	05/07/22 AOAC 991.14 (Petrifilm)	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	05/06/22 AOAC 2003.07			
Mold (RAPID Petrifilm)	1,000	cfu/g	1,000	05/08/22 AOAC 2014.05 (RAPID)	50,000	pass	
Yeast (RAPID Petrifilm)	1,000	cfu/g	1,000	05/08/22 AOAC 2014.05 (RAPID)	50,000	pass	
Listeria spp.	Negative	/25g	-	05/06/22 AOAC 2019.10 ₂			
Salmonella spp. by PCR	Negative	/25g	-	05/06/22 AOAC 2020.02 ₃	Negative	pass	

2) GENE-UP® Assay

3) GENE-UP® Assay

Mitragynine



Mitragynine

Mitragynine + 7-Hydroxymitragynine (S3200)

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine [†]	0.0309	%	0.0100	05/06/22 In house method by HPLC-DAD			
Mitragynine [†]	2.07	%	0.0500	05/06/22 In house method by HPLC-DAD			

Abbreviations

Limit(s) of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

Threshold Note: limits based on AHPA recommended limits for unprocessed herbs and supplements and ingredients

[†] = Analyte not ISO accredited.

Units of Measure

/25g = Per 25g

cfu/g = Colony forming units per gram

mg/kg = Milligram per kilogram = parts per million (ppm)

% = Percentage of sample

Approved Signatory



Derrick Tanner
General Manager