



12423 NE Whitaker Way
 Portland, OR 97230
 503-254-1794

Report Number: 22-011082/D002.R000
Report Date: 09/28/2022
Purchase Order:
Received: 09/15/22 10:25 AM
Project Name: Kratom Sept 2022



Customer: Grassroots Harvest
 321 W. Ben White Blvd Ste 103
 Austin Texas 78704
 United States of America (USA)

Sample ID: Green Hulu

Sample Matrix: Powder

Laboratory ID: 22-011082-0004-00

Evidence of Cooling: No

Temp: 22.1 °C

Relinquished by: UPS

Sample Results

Metals

Kratom Quality & Safety

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Arsenic	0.502	mg/kg	0.0182	09/21/22	AOAC 2013.06 (mod.) ^{p1}	
Cadmium	0.0190	mg/kg	0.0182	09/21/22	AOAC 2013.06 (mod.) ^{p1}	
Lead	0.725	mg/kg	0.0182	09/21/22	AOAC 2013.06 (mod.) ^{p1}	
Mercury	0.0235	mg/kg	0.00911	09/21/22	AOAC 2013.06 (mod.) ^{p1}	
Nickel	2.01	mg/kg	0.0182	09/21/22	AOAC 2013.06 (mod.) ^{p1}	

1) trace metals in food by Inductively Coupled Mass Spectrometry

Microbiology

Kratom Quality & Safety

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	09/18/22	AOAC 991.14 (Petrifilm) ^p	
Total Coliforms	< LOQ	cfu/g	100	09/18/22	AOAC 991.14 (Petrifilm) ^p	
Enterobacteriaceae	100	cfu/g	100	09/17/22	AOAC 2003.01 ^p	
Mold (RAPID Petrifilm)	1,100	cfu/g	100	09/19/22	AOAC 2014.05 (RAPID) ^p	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	09/19/22	AOAC 2014.05 (RAPID) ^p	
Salmonella spp. by PCR	Negative	/25g		09/17/22	AOAC 2020.02 ^{p2}	

2) GENE-UP® Assay

Mitragynine

Kratom Quality & Safety

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine	0.0299	%	0.0100	09/21/22	In house method by HPLC-DAD	
Mitragynine	1.28	%	0.0500	09/21/22	In house method by HPLC-DAD	