



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

Report Number: 22-000819/D002.R000
Report Date: 02/04/2022
Purchase Order:
Received: 01/24/22 11:07 AM



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

Sample ID: Red Maeng Da
Sample Matrix: Kratom powder
Laboratory ID: 22-000819-0017-00
Evidence of Cooling: No
Temp: 14 °C
Relinquished by: UPS

Sample Results

Metals

Heavy Metals Profile K

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Arsenic	0.133	mg/kg	0.00828	02/03/22	AOAC 2013.06 (mod.) ₁	
Cadmium	0.0342	mg/kg	0.00828	02/03/22	AOAC 2013.06 (mod.) ₁	
Lead	0.234	mg/kg	0.00828	02/03/22	AOAC 2013.06 (mod.) ₁	
Mercury	0.0217	mg/kg	0.00414	02/03/22	AOAC 2013.06 (mod.) ₁	
Nickel	2.50	mg/kg	0.0166	02/03/22	AOAC 2013.06 (mod.) ₁	

1) trace metals in food by Inductively Coupled Mass Spectrometry

Microbiology

Micro Profile A (E.col O157/List./Salm.)

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E. coli, O157:H7 (by PCR)	Negative	/25g		01/26/22	AOAC 2019.03 ₂	
Listeria spp.	Negative	/25g		01/26/22	AOAC 2019.10 ₃	
Salmonella spp. by PCR	Negative	/25g		01/26/22	AOAC 2020.02 ₄	

2) GENE-UP® Assay
 3) GENE-UP® Assay
 4) GENE-UP® Assay

Mitragynine

Mitragynine + 7-Hydroxymitragynine (Basic Plus)(S3200)

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine [†]	0.0385	%	0.0100	01/28/22	In house method by HPLC-DAD	
Mitragynine [†]	0.703	%	0.0500	01/28/22	In house method by HPLC-DAD	