



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 Bali
Sample Matrix: Kratom powder
Laboratory ID: 22-000819-0002-00
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	0.162	mg/kg	0.00733	02/03/22	AOAC 2013.06 (mod.) ₁	
Cadmium	0.0372	mg/kg	0.00733	02/03/22	AOAC 2013.06 (mod.) ₁	
Lead	0.317	mg/kg	0.00733	02/03/22	AOAC 2013.06 (mod.) ₁	
Mercury	0.0205	mg/kg	0.00366	02/03/22	AOAC 2013.06 (mod.) ₁	
Nickel	2.27	mg/kg	0.0147	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 [†]	0.0508	%	0.0100	01/28/22	In house method by HPLC-DAD	
Mitragynine [†]	0.845	%	0.0500	01/28/22	In house method by HPLC-DAD	

Test results relate only to the parameters tested and to the samples as received by the laboratory. Test results meet all requirements of Columbia Laboratories quality assurance plan unless otherwise noted. This report shall not be reproduced, except in full, without the written consent of this laboratory. Samples will be retained for a maximum of 30 days from the receipt date unless prior arrangements have been made.