



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

Report Number: 22-005880/D002.R000
Report Date: 06/01/2022
Purchase Order:
Received: 05/19/22 10:55 AM
Project Name: King K Kratom Shot



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

Sample ID: King K Kratom Shot 150 mg MIT Content

Sample Matrix: Kratom Liquid

Laboratory ID: 22-005880-0004-00

Evidence of Cooling: No

Temp: 19 °C

Relinquished by: UPS

Sample Results

Metals

Heavy Metals Profile K

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Arsenic	< LOQ	mg/kg	0.0182	05/26/22	AOAC 2013.06 (mod.) ₁	
Cadmium	< LOQ	mg/kg	0.0182	05/26/22	AOAC 2013.06 (mod.) ₁	
Lead	< LOQ	mg/kg	0.0181	06/01/22	AOAC 2013.06 (mod.) ₁	
Mercury	< LOQ	mg/kg	0.00912	05/26/22	AOAC 2013.06 (mod.) ₁	
Nickel	< LOQ	mg/kg	0.0182	05/26/22	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		05/21/22	AOAC 2019.03 ₂	
Listeria spp.	Negative	/25g		05/21/22	AOAC 2019.10 ₃	
Salmonella spp. by PCR	Negative	/25g		05/21/22	AOAC 2020.02 ₄	

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

Mitragynine

Mitragynine + 7-Hydroxymitragynine (S3200)

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine [†]	< LOQ	mg/ml	0.100	05/23/22	In house method by HPLC-DAD	
Mitragynine [†]	5.43	mg/ml	0.500	05/23/22	In house method by HPLC-DAD	

Nutrition

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Water Activity	0.925	Aw	0.030	05/20/22	AOAC 978.18	

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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.