



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:** Bentuangie  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 22-000819-0004-00  
**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	0.363	mg/kg	0.00951	02/03/22	AOAC 2013.06 (mod.) <sub>1</sub>	
Cadmium	0.0173	mg/kg	0.00951	02/03/22	AOAC 2013.06 (mod.) <sub>1</sub>	
Lead	0.529	mg/kg	0.00951	02/03/22	AOAC 2013.06 (mod.) <sub>1</sub>	
Mercury	0.0239	mg/kg	0.00476	02/03/22	AOAC 2013.06 (mod.) <sub>1</sub>	
Nickel	0.958	mg/kg	0.0190	02/03/22	AOAC 2013.06 (mod.) <sub>1</sub>	

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 <sub>2</sub>	
Listeria spp.	Negative	/25g		01/26/22	AOAC 2019.10 <sub>3</sub>	
Salmonella spp. by PCR	Negative	/25g		01/26/22	AOAC 2020.02 <sub>4</sub>	

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 <sup>†</sup>	0.0302	%	0.0100	01/28/22	In house method by HPLC-DAD	
Mitragynine <sup>†</sup>	0.603	%	0.0500	01/28/22	In house method by HPLC-DAD	