



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

Report Number: 20-002721/D02.R00
Report Date: 03/19/2020
Purchase Order:
Received: 03/09/20 10:40 AM



Customer: Grassroots Harvest
321 W. Ben White Blvd Ste 103
Austin Texas 78704
United States

Sample ID: Joy KD
Sample Matrix: Kratom powder
Laboratory ID: 20-002721-0002
Evidence of Cooling: No
Temp: 15 °C

Sample Results

Metals

Heavy Metals Profile K

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Arsenic	0.218	mg/kg	0.00993	03/17/20	AOAC 2013.06 (mod.) ₁	
Cadmium	0.0382	mg/kg	0.00993	03/17/20	AOAC 2013.06 (mod.) ₁	
Lead	0.478	mg/kg	0.00993	03/17/20	AOAC 2013.06 (mod.) ₁	
Mercury	0.0166	mg/kg	0.00496	03/17/20	AOAC 2013.06 (mod.) ₁	
Nickel	2.65	mg/kg	0.0199	03/17/20	AOAC 2013.06 (mod.) ₁	

1) trace metals in food by Inductively Coupled Mass Spectrometry

Microbiology

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp.	Negative	/10g		03/12/20	AOAC 2016.01 ₂	
Listeria monocytogenes	Negative	/10g		03/12/20	AOAC 2016.08 ₃	
E.coli O157:H7	Negative	/10g		03/12/20	AOAC 2017.01 ₄	

- 2) 3M Molecular Detection of Salmonella
- 3) 3M Molecular Detection of Listeria monocytogenes
- 4) 3M Molecular Detection of E.coli O157

Mitragynine

Mitragynine + 7-Hydroxymitragynine (Basic Plus)

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine [†]	0.0945	%	0.0100	03/16/20	Japanese Association of Forensic Toxicology (2009) 27:67-74	
Mitragynine [†]	1.19	%	0.250	03/16/20	Japanese Association of Forensic Toxicology (2009) 27:67-74	