



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



Report Number: 20-009768/D02.R00
Report Date: 09/23/2020
Purchase Order:
Received: 09/14/20 10:33 AM

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

Sample ID: Joy Kratom Blend

Sample Matrix: Kratom powder

Laboratory ID: 20-009768-0001

Evidence of Cooling: No

Temp: 20 °C

Sample Results

Metals

Heavy Metals Profile K

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Arsenic	0.158	mg/kg	0.00865	09/17/20	AOAC 2013.06 (mod.) ₁	
Cadmium	0.0264	mg/kg	0.00865	09/17/20	AOAC 2013.06 (mod.) ₁	
Lead	0.230	mg/kg	0.00865	09/17/20	AOAC 2013.06 (mod.) ₁	
Mercury	0.0278	mg/kg	0.00433	09/17/20	AOAC 2013.06 (mod.) ₁	
Nickel	4.56	mg/kg	0.0173	09/17/20	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	/25g		09/17/20	AOAC 2016.01 ₂	
Listeria monocytogenes	Negative	/25g		09/16/20	AOAC 2016.08 ₃	
E.coli O157:H7	Negative	/25g		09/16/20	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 [†]	0.0697	%	0.0100	09/23/20	Japanese Association of Forensic Toxicology (2009) 27:67-74	
Mitragynine [†]	1.33	%	0.0500	09/23/20	Japanese Association of Forensic Toxicology (2009) 27:67-74	