



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

**Report Number:** 22-011082/D002.R000  
**Report Date:** 09/28/2022  
**Purchase Order:**  
**Received:** 09/15/22 10:25 AM  
**Project Name:** Kratom Sept 2022



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

**Sample ID:** White Thai

**Sample Matrix:** Powder

**Laboratory ID:** 22-011082-0002-00

**Evidence of Cooling:** No

**Temp:** 22.1 °C

**Relinquished by:** UPS

### Sample Results

#### Metals

##### Kratom Quality & Safety

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Arsenic	0.493	mg/kg	0.0200	09/21/22	AOAC 2013.06 (mod.) <sup>p1</sup>	
Cadmium	0.0247	mg/kg	0.0200	09/21/22	AOAC 2013.06 (mod.) <sup>p1</sup>	
Lead	0.290	mg/kg	0.0200	09/21/22	AOAC 2013.06 (mod.) <sup>p1</sup>	
Mercury	0.0256	mg/kg	0.00999	09/21/22	AOAC 2013.06 (mod.) <sup>p1</sup>	
Nickel	1.39	mg/kg	0.0200	09/21/22	AOAC 2013.06 (mod.) <sup>p1</sup>	

1) trace metals in food by Inductively Coupled Mass Spectrometry

#### Microbiology

##### Kratom Quality & Safety

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	09/18/22	AOAC 991.14 (Petrifilm) <sup>p</sup>	
Total Coliforms	100	cfu/g	100	09/18/22	AOAC 991.14 (Petrifilm) <sup>p</sup>	
Enterobacteriaceae	100	cfu/g	100	09/17/22	AOAC 2003.01 <sup>p</sup>	
Mold (RAPID Petrifilm)	130,000	cfu/g	10,000	09/19/22	AOAC 2014.05 (RAPID) <sup>p</sup>	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	09/19/22	AOAC 2014.05 (RAPID) <sup>p</sup>	
Salmonella spp. by PCR	Negative	/25g		09/17/22	AOAC 2020.02 <sup>p2</sup>	

2) GENE-UP® Assay

#### Mitragynine

##### Kratom Quality & Safety

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine	0.0262	%	0.0100	09/21/22	In house method by HPLC-DAD	
Mitragynine	1.01	%	0.0500	09/21/22	In house method by HPLC-DAD	