

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

Report Number: 22-007272/D002.R000

Report Date:

06/28/2022

Purchase Order:

Received:

06/21/22 02:21 PM



Customer: Top Tree Herbs

2000 S. Colorado Blvd.

Tower One, Suite 2000 #1046

Denver, CO 80222

Sample ID: TTHGRL03073, TTHGTB04073

Sample Matrix: Kratom Leaf
Laboratory ID: 22-007272-0001

Evidence of Cooling: No
Temp: 23.8 °C
Relinquished by: Courier

Sample Results

Metals								
Heavy Metals Profile K								
Analyte	Result	Units	LOQ	Analyzed	Method	Threshold	Pass/Fail	Notes
Arsenic	0.0545	mg/kg	0.00958	06/22/22	AOAC 2013.06 (mod.) ₁	2.08	pass	
Cadmium	0.0107	mg/kg	0.00958	06/22/22	AOAC 2013.06 (mod.) ₁	0.850	pass	
Lead	0.248	mg/kg	0.00958	06/22/22	AOAC 2013.06 (mod.) ₁	1.25	pass	
Mercury	0.0143	mg/kg	0.00479	06/22/22	AOAC 2013.06 (mod.) ₁	0.410	pass	
Nickel	1.55	mg/kg	0.0192	06/22/22	AOAC 2013.06 (mod.) ₁	20.0	pass	

¹⁾ trace metals in food by Inductively Coupled Mass Spectrometry

Microbiology Microbiology Profile B									
Aerobic Plate Count	7,300	cfu/g	100	06/24/22	AOAC 990.12 (Petrifilm)	10,000,000 pass			
E.coli	< LOQ	cfu/g	100	06/24/22	AOAC 991.14 (Petrifilm)	100 pass			
Enterobacteriaceae	<loq< td=""><td>cfu/g</td><td>100</td><td>06/23/22</td><td>AOAC 2003.01</td><td>10,000 pass</td><td></td></loq<>	cfu/g	100	06/23/22	AOAC 2003.01	10,000 pass			
Mold (RAPID Petrifilm)	200	cfu/g	100	06/25/22	AOAC 2014.05 (RAPID)	50,000 pass			
Yeast (RAPID Petrifilm)	<loq< td=""><td>cfu/g</td><td>100</td><td>06/25/22</td><td>AOAC 2014.05 (RAPID)</td><td>50,000 pass</td><td></td></loq<>	cfu/g	100	06/25/22	AOAC 2014.05 (RAPID)	50,000 pass			
Salmonella, 375g, by PCR	Negative	/375g	-	06/23/22	AOAC 2020.02 ₂	Negative pass			

²⁾ GENE-UP® Assay

Mitragynine									
Mitragynine Full Alkaloid Panel									
Analyte	Result	Units	LOQ	Analyzed	Method	Threshold Pass/Fail	Notes		
7-Hydroxymitragynine [†]	0.0139	%	0.0100	06/23/22	In house method by HPLC-DAD				
Isorhynchophylline	< LOQ	%	0.0500	06/23/22	In house method by HPLC-DAD				

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Mitragynine									
Mitragynine Full Alkaloid Panel									
Analyte	Result	Units	LOQ	Analyzed	Method	Threshold Pass/Fail Note			
Mitragynine [†]	1.28	%	0.0500	06/23/22	In house method by HPLC-DAD				
Mitraphylline	< LOQ	%	0.0500	06/23/22	In house method by HPLC-DAD				
Paynantheine	0.276	%	0.0500	06/23/22	In house method by HPLC-DAD				
Speciociliatine	0.285	%	0.0500	06/23/22	In house method by HPLC-DAD				
Speciogynine	0.192	%	0.0500	06/23/22	In house method by HPLC-DAD				



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1) GENE-UP® Assay