



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

Report Number: 24-004872/D056.R000
Report Date: 05/13/2024
Purchase Order: andy050324
Received: 05/06/24 10:38 AM



Customer: Lamp Nutra
 3133 Tigar Run Ct Ste 104
 Carlsbad California 92010
 United States of America (USA)

Sample ID: LNK-L49-B1
Sample Matrix: Kratom powder
Laboratory ID: 24-004872-0001
Evidence of Cooling: No
Temp: 18.3 °C
Serving Size #1: 2 g

Sample Results

Metals

Heavy Metals Profile K

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Arsenic	0.205	mg/kg	0.0184	05/09/24 AOAC 2013.06 (mod.) ^P	1.50	pass	
Cadmium	0.0347	mg/kg	0.0184	05/09/24 AOAC 2013.06 (mod.) ^P	0.500	pass	
Lead	0.458	mg/kg	0.0184	05/09/24 AOAC 2013.06 (mod.) ^P	1.00	pass	
Mercury	0.0165	mg/kg	0.00918	05/09/24 AOAC 2013.06 (mod.) ^P	0.200	pass	
Nickel	3.90	mg/kg	0.0184	05/09/24 AOAC 2013.06 (mod.) ^P	20.0	pass	

Abbreviations

Limit(s) of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

Threshold Note: limits based on AHPA recommended limits for unprocessed herbs and supplements and ingredients (10g daily consu

^P = ISO/IEC 17025:2017 accredited method.

Units of Measure

mg/kg = Milligram per kilogram = parts per million (ppm)

Approved Signatory

Derrick Tanner
 General Manager



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Received: 05/06/24 10:38 AM



Customer: Lamp Nutra
 3133 Tigar Run Ct Ste 104
 Carlsbad California 92010
 United States of America (USA)

Sample ID: LNK-L49-B1
Sample Matrix: Kratom powder
Laboratory ID: 24-004872-0001
Evidence of Cooling: No
Temp: 18.3 °C
Serving Size #1: 2 g

Sample Results

Microbiology

Micro Profile L

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	500	cfu/g	100	05/09/24 AOAC 990.12 (Petrifilm) ^P	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	05/09/24 AOAC 991.14 (Petrifilm) ^P	100	pass	
Total Coliforms	< LOQ	cfu/g	100	05/09/24 AOAC 991.14 (Petrifilm) ^P	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	05/08/24 AOAC 2003.07 ^P			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	05/10/24 AOAC 2014.05 (RAPID) ^P	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	05/10/24 AOAC 2014.05 (RAPID) ^P	50,000	pass	
Listeria spp.	Negative	/10g	-	05/08/24 AOAC 2019.10 ^{P1}			I
Salmonella spp. by PCR	Negative	/25g	-	05/08/24 AOAC 2020.02 ^{P2}	Negative	pass	

- 1) GENE-UP® Assay
 2) GENE-UP® Assay

Mitragynine

Mitragynine + 7-Hydroxymitragynine

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	0.0213	%	0.0100	05/08/24 In house method by HPLC-DAD ^P			
Mitragynine	0.978	%	0.0500	05/08/24 In house method by HPLC-DAD ^P			

Mitragynine per serving

Mitragynine (+7OH) Serving Size 1

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine per Serving Size #1	0.426	mg/serv ing	0.200	05/13/24 In house method by HPLC-DAD ^P			
Mitragynine per Serving Size #1	19.6	mg/serv ing	1.00	05/13/24 In house method by HPLC-DAD ^P			



12423 NE Whitaker Way
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Report Number: 24-004872/D043.R000
Report Date: 05/13/2024
Purchase Order: andy050324
Received: 05/06/24 10:38 AM



Customer: Lamp Nutra
 3133 Tigar Run Ct Ste 104
 Carlsbad California 92010
 United States of America (USA)

Sample ID: LNK-L49-B2
Sample Matrix: Kratom powder
Laboratory ID: 24-004872-0002
Evidence of Cooling: No
Temp: 18.3 °C
Serving Size #1: 2 g

Sample Results

Microbiology

Micro Profile L

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	1,200	cfu/g	100	05/09/24 AOAC 990.12 (Petrifilm) ^P	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	05/09/24 AOAC 991.14 (Petrifilm) ^P	100	pass	
Total Coliforms	< LOQ	cfu/g	100	05/09/24 AOAC 991.14 (Petrifilm) ^P	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	05/08/24 AOAC 2003.07 ^P			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	05/10/24 AOAC 2014.05 (RAPID) ^P	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	05/10/24 AOAC 2014.05 (RAPID) ^P	50,000	pass	
Listeria spp.	Negative	/25g	-	05/08/24 AOAC 2019.10 ^{P1}			
Salmonella spp. by PCR	Negative	/25g	-	05/08/24 AOAC 2020.02 ^{P2}	Negative	pass	

- 1) GENE-UP[®] Assay
 2) GENE-UP[®] Assay

Mitragynine

Mitragynine + 7-Hydroxymitragynine

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	0.0165	%	0.0100	05/08/24 In house method by HPLC-DAD ^P			
Mitragynine	1.04	%	0.0500	05/08/24 In house method by HPLC-DAD ^P			

Mitragynine per serving

Mitragynine (+7OH) Serving Size 1

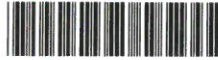
Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine per Serving Size #1	0.330	mg/serv ing	0.200	05/13/24 In house method by HPLC-DAD ^P			
Mitragynine per Serving Size #1	20.8	mg/serv ing	1.00	05/13/24 In house method by HPLC-DAD ^P			

Test results relate only to the parameters tested and to the samples as received by the laboratory. Test results meet all requirements of Columbia Laboratories quality assurance plan unless otherwise noted. This report shall not be reproduced, except in full, without the written consent of this laboratory. Samples will be retained for a maximum of 30 days from the receipt date unless prior arrangements have been made.



12423 NE Whitaker Way
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Report Number: 24-004872/D047.R000
Report Date: 05/13/2024
Purchase Order: andy050324
Received: 05/06/24 10:38 AM



Customer: Lamp Nutra
 3133 Tigar Run Ct Ste 104
 Carlsbad California 92010
 United States of America (USA)

Sample ID: LNK-L49-B3
Sample Matrix: Kratom powder
Laboratory ID: 24-004872-0003
Evidence of Cooling: No
Temp: 18.3 °C
Serving Size #1: 2 g

Sample Results

Microbiology

Micro Profile L

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	600	cfu/g	100	05/09/24 AOAC 990.12 (Petrifilm) ^P	10,000,000	pass	
E. coli	< LOQ	cfu/g	100	05/09/24 AOAC 991.14 (Petrifilm) ^P	100	pass	
Total Coliforms	< LOQ	cfu/g	100	05/09/24 AOAC 991.14 (Petrifilm) ^P	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	05/08/24 AOAC 2003.07 ^P			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	05/10/24 AOAC 2014.05 (RAPID) ^P	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	05/10/24 AOAC 2014.05 (RAPID) ^P	50,000	pass	
Listeria spp.	Negative	/25g	-	05/08/24 AOAC 2019.10 ^{P1}			
Salmonella spp. by PCR	Negative	/25g	-	05/08/24 AOAC 2020.02 ^{P2}	Negative	pass	

1) GENE-UP[®] Assay

2) GENE-UP[®] Assay

Mitragynine

Mitragynine + 7-Hydroxymitragynine

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	0.0212	%	0.0100	05/08/24 In house method by HPLC-DAD ^P			
Mitragynine	0.982	%	0.0500	05/08/24 In house method by HPLC-DAD ^P			

Mitragynine per serving

Mitragynine (+7OH) Serving Size 1

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine per Serving Size #1	0.424	mg/serv ing	0.200	05/13/24 In house method by HPLC-DAD ^P			
Mitragynine per Serving Size #1	19.6	mg/serv ing	1.00	05/13/24 In house method by HPLC-DAD ^P			



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Customer: Lamp Nutra
 3133 Tigar Run Ct Ste 104
 Carlsbad California 92010
 United States of America (USA)

Sample ID: LNK-L49-B4
Sample Matrix: Kratom powder
Laboratory ID: 24-004872-0004
Evidence of Cooling: No
Temp: 18.3 °C
Serving Size #1: 2 g

Sample Results

Microbiology

Micro Profile L

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	2,400	cfu/g	100	05/09/24 AOAC 990.12 (Petrifilm) ^P	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	05/09/24 AOAC 991.14 (Petrifilm) ^P	100	pass	
Total Coliforms	< LOQ	cfu/g	100	05/09/24 AOAC 991.14 (Petrifilm) ^P	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	05/08/24 AOAC 2003.07 ^P			
Mold (RAPID Petrifilm)	100	cfu/g	100	05/10/24 AOAC 2014.05 (RAPID) ^P	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	05/10/24 AOAC 2014.05 (RAPID) ^P	50,000	pass	
Listeria spp.	Negative	/25g	-	05/08/24 AOAC 2019.10 ^{P1}			
Salmonella spp. by PCR	Negative	/25g	-	05/08/24 AOAC 2020.02 ^{P2}	Negative	pass	

- 1) GENE-UP® Assay
 2) GENE-UP® Assay

Mitragynine

Mitragynine + 7-Hydroxymitragynine

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	0.0216	%	0.0100	05/08/24 In house method by HPLC-DAD ^P			
Mitragynine	1.05	%	0.0500	05/08/24 In house method by HPLC-DAD ^P			

Mitragynine per serving

Mitragynine (+7OH) Serving Size 1

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine per Serving Size #1	0.432	mg/serv ing	0.200	05/13/24 In house method by HPLC-DAD ^P			
Mitragynine per Serving Size #1	21.0	mg/serv ing	1.00	05/13/24 In house method by HPLC-DAD ^P			



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Customer: Lamp Nutra
3133 Tigar Run Ct Ste 104
Carlsbad California 92010
United States of America (USA)

Sample ID: LNK-L49-B5
Sample Matrix: Kratom powder
Laboratory ID: 24-004872-0005
Evidence of Cooling: No
Temp: 18.3 °C
Serving Size #1: 2 g

Sample Results

Microbiology

Micro Profile L

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	3,400	cfu/g	100	05/09/24 AOAC 990.12 (Petrifilm) ^P	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	05/09/24 AOAC 991.14 (Petrifilm) ^P	100	pass	
Total Coliforms	< LOQ	cfu/g	100	05/09/24 AOAC 991.14 (Petrifilm) ^P	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	05/08/24 AOAC 2003.07 ^P			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	05/10/24 AOAC 2014.05 (RAPID) ^P	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	05/10/24 AOAC 2014.05 (RAPID) ^P	50,000	pass	
Listeria spp.	Negative	/25g	-	05/08/24 AOAC 2019.10 ^{P1}			
Salmonella spp. by PCR	Negative	/25g	-	05/08/24 AOAC 2020.02 ^{P2}	Negative	pass	

- 1) GENE-UP® Assay
2) GENE-UP® Assay

Mitragynine

Mitragynine + 7-Hydroxymitragynine

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	0.0196	%	0.0100	05/08/24 In house method by HPLC-DAD ^P			
Mitragynine	1.04	%	0.0500	05/08/24 In house method by HPLC-DAD ^P			

Mitragynine per serving

Mitragynine (+7OH) Serving Size 1

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine per Serving Size #1	0.392	mg/serv ing	0.200	05/13/24 In house method by HPLC-DAD ^P			
Mitragynine per Serving Size #1	20.8	mg/serv ing	1.00	05/13/24 In house method by HPLC-DAD ^P			



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Report Number: 24-004872/D044.R000
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Customer: Lamp Nutra
 3133 Tigar Run Ct Ste 104
 Carlsbad California 92010
 United States of America (USA)

Sample ID: LNK-L49-B6
Sample Matrix: Kratom powder
Laboratory ID: 24-004872-0006
Evidence of Cooling: No
Temp: 18.3 °C
Serving Size #1: 2 g

Sample Results

Microbiology

Micro Profile L

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	500	cfu/g	100	05/09/24 AOAC 990.12 (Petrifilm) ^P	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	05/09/24 AOAC 991.14 (Petrifilm) ^P	100	pass	
Total Coliforms	< LOQ	cfu/g	100	05/09/24 AOAC 991.14 (Petrifilm) ^P	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	05/08/24 AOAC 2003.07 ^P			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	05/10/24 AOAC 2014.05 (RAPID) ^P	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	05/10/24 AOAC 2014.05 (RAPID) ^P	50,000	pass	
Listeria spp.	Negative	/25g	-	05/08/24 AOAC 2019.10 ^P ₁			
Salmonella spp. by PCR	Negative	/25g	-	05/08/24 AOAC 2020.02 ^P ₂	Negative	pass	

- 1) GENE-UP[®] Assay
 2) GENE-UP[®] Assay

Mitragynine

Mitragynine + 7-Hydroxymitragynine

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	0.0212	%	0.0100	05/08/24 In house method by HPLC-DAD ^P			
Mitragynine	0.976	%	0.0500	05/08/24 In house method by HPLC-DAD ^P			

Mitragynine per serving

Mitragynine (+7OH) Serving Size 1

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine per Serving Size #1	0.424	mg/serv ing	0.200	05/13/24 In house method by HPLC-DAD ^P			
Mitragynine per Serving Size #1	19.5	mg/serv ing	1.00	05/13/24 In house method by HPLC-DAD ^P			

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Customer: Lamp Nutra
 3133 Tigar Run Ct Ste 104
 Carlsbad California 92010
 United States of America (USA)

Sample ID: LNK-L49-B7
Sample Matrix: Kratom powder
Laboratory ID: 24-004872-0007
Evidence of Cooling: No
Temp: 18.3 °C
Serving Size #1: 2 g

Sample Results

Microbiology

Micro Profile L

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	600	cfu/g	100	05/09/24 AOAC 990.12 (Petrifilm) ^P	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	05/09/24 AOAC 991.14 (Petrifilm) ^P	100	pass	
Total Coliforms	< LOQ	cfu/g	100	05/09/24 AOAC 991.14 (Petrifilm) ^P	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	05/08/24 AOAC 2003.07 ^P			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	05/10/24 AOAC 2014.05 (RAPID) ^P	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	05/10/24 AOAC 2014.05 (RAPID) ^P	50,000	pass	
Listeria spp.	Negative	/25g	-	05/08/24 AOAC 2019.10 ^{P1}			
Salmonella spp. by PCR	Negative	/25g	-	05/08/24 AOAC 2020.02 ^{P2}	Negative	pass	

- 1) GENE-UP® Assay
 2) GENE-UP® Assay

Mitragynine

Mitragynine + 7-Hydroxymitragynine

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	0.0205	%	0.0100	05/08/24 In house method by HPLC-DAD ^P			
Mitragynine	0.991	%	0.0500	05/08/24 In house method by HPLC-DAD ^P			

Mitragynine per serving

Mitragynine (+7OH) Serving Size 1

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine per Serving Size #1	0.410	mg/serv ing	0.200	05/13/24 In house method by HPLC-DAD ^P			
Mitragynine per Serving Size #1	19.8	mg/serv ing	1.00	05/13/24 In house method by HPLC-DAD ^P			



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Report Number: 24-004872/D049.R000
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Customer: Lamp Nutra
 3133 Tigar Run Ct Ste 104
 Carlsbad California 92010
 United States of America (USA)

Sample ID: LNK-L49-B8
Sample Matrix: Kratom powder
Laboratory ID: 24-004872-0008
Evidence of Cooling: No
Temp: 18.3 °C
Serving Size #1: 2 g

Sample Results

Microbiology

Micro Profile L

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	300	cfu/g	100	05/09/24 AOAC 990.12 (Petrifilm) ^P	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	05/09/24 AOAC 991.14 (Petrifilm) ^P	100	pass	
Total Coliforms	< LOQ	cfu/g	100	05/09/24 AOAC 991.14 (Petrifilm) ^P	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	05/08/24 AOAC 2003.07 ^P			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	05/10/24 AOAC 2014.05 (RAPID) ^P	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	05/10/24 AOAC 2014.05 (RAPID) ^P	50,000	pass	
Listeria spp.	Negative	/25g	-	05/08/24 AOAC 2019.10 ^{P1}			
Salmonella spp. by PCR	Negative	/25g	-	05/08/24 AOAC 2020.02 ^{P2}	Negative	pass	

- 1) GENE-UP[®] Assay
 2) GENE-UP[®] Assay

Mitragynine

Mitragynine + 7-Hydroxymitragynine

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	0.0206	%	0.0100	05/08/24 In house method by HPLC-DAD ^P			
Mitragynine	1.01	%	0.0500	05/08/24 In house method by HPLC-DAD ^P			

Mitragynine per serving

Mitragynine (+7OH) Serving Size 1

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine per Serving Size #1	0.412	mg/serv ing	0.200	05/13/24 In house method by HPLC-DAD ^P			
Mitragynine per Serving Size #1	20.2	mg/serv ing	1.00	05/13/24 In house method by HPLC-DAD ^P			



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Customer: Lamp Nutra
3133 Tigar Run Ct Ste 104
Carlsbad California 92010
United States of America (USA)

Sample ID: LNK-L49-B9
Sample Matrix: Kratom powder
Laboratory ID: 24-004872-0009
Evidence of Cooling: No
Temp: 18.3 °C
Serving Size #1: 2 g

Sample Results

Microbiology

Micro Profile L

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	1,200	cfu/g	100	05/09/24 AOAC 990.12 (Petrifilm) ^p	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	05/09/24 AOAC 991.14 (Petrifilm) ^p	100	pass	
Total Coliforms	< LOQ	cfu/g	100	05/09/24 AOAC 991.14 (Petrifilm) ^p	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	05/08/24 AOAC 2003.07 ^p			
Mold (RAPID Petrifilm)	100	cfu/g	100	05/10/24 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	05/10/24 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Listeria spp.	Negative	/25g	-	05/08/24 AOAC 2019.10 ^{p1}			
Salmonella spp. by PCR	Negative	/25g	-	05/08/24 AOAC 2020.02 ^{p2}	Negative	pass	

1) GENE-UP® Assay

2) GENE-UP® Assay

Mitragynine

Mitragynine + 7-Hydroxymitragynine

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	0.0298	%	0.0100	05/08/24 In house method by HPLC-DAD ^p			
Mitragynine	1.05	%	0.0500	05/08/24 In house method by HPLC-DAD ^p			

Mitragynine per serving

Mitragynine (+7OH) Serving Size 1

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine per Serving Size #1	0.596	mg/serv ing	0.200	05/13/24 In house method by HPLC-DAD ^p			
Mitragynine per Serving Size #1	21.0	mg/serv ing	1.00	05/13/24 In house method by HPLC-DAD ^p			



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Customer: Lamp Nutra
 3133 Tigar Run Ct Ste 104
 Carlsbad California 92010
 United States of America (USA)

Sample ID: LNK-L49-B10
Sample Matrix: Kratom powder
Laboratory ID: 24-004872-0010
Evidence of Cooling: No
Temp: 18.3 °C
Serving Size #1: 2 g

Sample Results

Microbiology

Micro Profile L

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	600	cfu/g	100	05/09/24 AOAC 990.12 (Petrifilm) ^p	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	05/09/24 AOAC 991.14 (Petrifilm) ^p	100	pass	
Total Coliforms	< LOQ	cfu/g	100	05/09/24 AOAC 991.14 (Petrifilm) ^p	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	05/08/24 AOAC 2003.07 ^p			
Mold (RAPID Petrifilm)	100	cfu/g	100	05/10/24 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	05/10/24 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Listeria spp.	Negative	/25g	-	05/08/24 AOAC 2019.10 ^{p1}			
Salmonella spp. by PCR	Negative	/25g	-	05/08/24 AOAC 2020.02 ^{p2}	Negative	pass	

- 1) GENE-UP[®] Assay
 2) GENE-UP[®] Assay

Mitragynine

Mitragynine + 7-Hydroxymitragynine

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	0.0280	%	0.0100	05/08/24 In house method by HPLC-DAD ^p			
Mitragynine	1.00	%	0.0500	05/08/24 In house method by HPLC-DAD ^p			

Mitragynine per serving

Mitragynine (+7OH) Serving Size 1

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine per Serving Size #1	0.560	mg/serv ing	0.200	05/13/24 In house method by HPLC-DAD ^p			
Mitragynine per Serving Size #1	20.0	mg/serv ing	1.00	05/13/24 In house method by HPLC-DAD ^p			

Test results relate only to the parameters tested and to the samples as received by the laboratory. Test results meet all requirements of Columbia Laboratories quality assurance plan unless otherwise noted. This report shall not be reproduced, except in full, without the written consent of this laboratory. Samples will be retained for a maximum of 30 days from the receipt date unless prior arrangements have been made.



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

Report Number: 24-004872/D051.R000
Report Date: 05/13/2024
Purchase Order: andy050324
Received: 05/06/24 10:38 AM



Customer: Lamp Nutra
 3133 Tigar Run Ct Ste 104
 Carlsbad California 92010
 United States of America (USA)

Sample ID: LNK-L49-B11
Sample Matrix: Kratom powder
Laboratory ID: 24-004872-0011
Evidence of Cooling: No
Temp: 18.3 °C
Serving Size #1: 2 g

Sample Results

Microbiology

Micro Profile L

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	700	cfu/g	100	05/09/24 AOAC 990.12 (Petrifilm) ^P	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	05/09/24 AOAC 991.14 (Petrifilm) ^P	100	pass	
Total Coliforms	< LOQ	cfu/g	100	05/09/24 AOAC 991.14 (Petrifilm) ^P	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	05/08/24 AOAC 2003.07 ^P			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	05/10/24 AOAC 2014.05 (RAPID) ^P	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	05/10/24 AOAC 2014.05 (RAPID) ^P	50,000	pass	
Listeria spp.	Negative	/25g	-	05/08/24 AOAC 2019.10 ^{P1}			
Salmonella spp. by PCR	Negative	/25g	-	05/08/24 AOAC 2020.02 ^{P2}	Negative	pass	

- 1) GENE-UP[®] Assay
 2) GENE-UP[®] Assay

Mitragynine

Mitragynine + 7-Hydroxymitragynine

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	0.0255	%	0.0100	05/08/24 In house method by HPLC-DAD ^P			
Mitragynine	0.986	%	0.0500	05/08/24 In house method by HPLC-DAD ^P			

Mitragynine per serving

Mitragynine (+7OH) Serving Size 1

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine per Serving Size #1	0.510	mg/serv ing	0.200	05/13/24 In house method by HPLC-DAD ^P			
Mitragynine per Serving Size #1	19.7	mg/serv ing	1.00	05/13/24 In house method by HPLC-DAD ^P			



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Report Number: 24-004872/D052.R000
Report Date: 05/13/2024
Purchase Order: andy050324
Received: 05/06/24 10:38 AM



Customer: Lamp Nutra
 3133 Tigar Run Ct Ste 104
 Carlsbad California 92010
 United States of America (USA)

Sample ID: LNK-L49-B12
Sample Matrix: Kratom powder
Laboratory ID: 24-004872-0012
Evidence of Cooling: No
Temp: 18.3 °C
Serving Size #1: 2 g

Sample Results

Microbiology

Micro Profile L

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	1,700	cfu/g	100	05/09/24 AOAC 990.12 (Petrifilm) ^P	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	05/09/24 AOAC 991.14 (Petrifilm) ^P	100	pass	
Total Coliforms	< LOQ	cfu/g	100	05/09/24 AOAC 991.14 (Petrifilm) ^P	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	05/08/24 AOAC 2003.07 ^P			
Mold (RAPID Petrifilm)	200	cfu/g	100	05/10/24 AOAC 2014.05 (RAPID) ^P	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	05/10/24 AOAC 2014.05 (RAPID) ^P	50,000	pass	
Listeria spp.	Negative	/25g	-	05/08/24 AOAC 2019.10 ^P ₁			
Salmonella spp. by PCR	Negative	/25g	-	05/08/24 AOAC 2020.02 ^P ₂	Negative	pass	

- 1) GENE-UP® Assay
 2) GENE-UP® Assay

Mitragynine

Mitragynine + 7-Hydroxymitragynine

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	0.0319	%	0.0100	05/08/24 In house method by HPLC-DAD ^P			
Mitragynine	0.883	%	0.0500	05/08/24 In house method by HPLC-DAD ^P			

Mitragynine per serving

Mitragynine (+7OH) Serving Size 1

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine per Serving Size #1	0.638	mg/serv ing	0.200	05/13/24 In house method by HPLC-DAD ^P			
Mitragynine per Serving Size #1	17.7	mg/serv ing	1.00	05/13/24 In house method by HPLC-DAD ^P			



12423 NE Whitaker Way
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Report Number: 24-004872/D050.R000
Report Date: 05/13/2024
Purchase Order: andy050324
Received: 05/06/24 10:38 AM



Customer: Lamp Nutra
 3133 Tigar Run Ct Ste 104
 Carlsbad California 92010
 United States of America (USA)

Sample ID: LNK-L49-B13
Sample Matrix: Kratom powder
Laboratory ID: 24-004872-0013
Evidence of Cooling: No
Temp: 18.3 °C
Serving Size #1: 2 g

Sample Results

Microbiology

Micro Profile L

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	200	cfu/g	100	05/09/24 AOAC 990.12 (Petrifilm) ^P	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	05/09/24 AOAC 991.14 (Petrifilm) ^P	100	pass	
Total Coliforms	< LOQ	cfu/g	100	05/09/24 AOAC 991.14 (Petrifilm) ^P	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	05/08/24 AOAC 2003.07 ^P			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	05/10/24 AOAC 2014.05 (RAPID) ^P	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	05/10/24 AOAC 2014.05 (RAPID) ^P	50,000	pass	
Listeria spp.	Negative	/25g	-	05/08/24 AOAC 2019.10 ^{P1}			
Salmonella spp. by PCR	Negative	/25g	-	05/08/24 AOAC 2020.02 ^{P2}	Negative	pass	

- 1) GENE-UP® Assay
 2) GENE-UP® Assay

Mitragynine

Mitragynine + 7-Hydroxymitragynine

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	0.0246	%	0.0100	05/08/24 In house method by HPLC-DAD ^P			
Mitragynine	0.869	%	0.0500	05/08/24 In house method by HPLC-DAD ^P			

Mitragynine per serving

Mitragynine (+7OH) Serving Size 1

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine per Serving Size #1	0.492	mg/serv ing	0.200	05/13/24 In house method by HPLC-DAD ^P			
Mitragynine per Serving Size #1	17.4	mg/serv ing	1.00	05/13/24 In house method by HPLC-DAD ^P			

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12423 NE Whitaker Way
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Report Number: 24-004872/D042.R000
Report Date: 05/13/2024
Purchase Order: andy050324
Received: 05/06/24 10:38 AM



Customer: Lamp Nutra
 3133 Tigar Run Ct Ste 104
 Carlsbad California 92010
 United States of America (USA)

Sample ID: LNK-L49-B14
Sample Matrix: Kratom powder
Laboratory ID: 24-004872-0014
Evidence of Cooling: No
Temp: 18.3 °C
Serving Size #1: 2 g

Sample Results

Microbiology

Micro Profile L

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	2,200	cfu/g	100	05/09/24 AOAC 990.12 (Petrifilm) ^P	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	05/09/24 AOAC 991.14 (Petrifilm) ^P	100	pass	
Total Coliforms	< LOQ	cfu/g	100	05/09/24 AOAC 991.14 (Petrifilm) ^P	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	05/08/24 AOAC 2003.07 ^P			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	05/10/24 AOAC 2014.05 (RAPID) ^P	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	05/10/24 AOAC 2014.05 (RAPID) ^P	50,000	pass	
Listeria spp.	Negative	/25g	-	05/08/24 AOAC 2019.10 ^P ₁			
Salmonella spp. by PCR	Negative	/25g	-	05/08/24 AOAC 2020.02 ^P ₂	Negative	pass	

- 1) GENE-UP[®] Assay
 2) GENE-UP[®] Assay

Mitragynine

Mitragynine + 7-Hydroxymitragynine

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	0.0270	%	0.0100	05/08/24 In house method by HPLC-DAD ^P			
Mitragynine	1.00	%	0.0500	05/08/24 In house method by HPLC-DAD ^P			

Mitragynine per serving

Mitragynine (+7OH) Serving Size 1

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine per Serving Size #1	0.540	mg/serv ing	0.200	05/13/24 In house method by HPLC-DAD ^P			
Mitragynine per Serving Size #1	20.0	mg/serv ing	1.00	05/13/24 In house method by HPLC-DAD ^P			

Test results relate only to the parameters tested and to the samples as received by the laboratory. Test results meet all requirements of Columbia Laboratories quality assurance plan unless otherwise noted. This report shall not be reproduced, except in full, without the written consent of this laboratory. Samples will be retained for a maximum of 30 days from the receipt date unless prior arrangements have been made.



12423 NE Whitaker Way
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Report Number: 24-004872/D033.R000
Report Date: 05/13/2024
Purchase Order: andy050324
Received: 05/06/24 10:38 AM



Customer: Lamp Nutra
 3133 Tigar Run Ct Ste 104
 Carlsbad California 92010
 United States of America (USA)

Sample ID: LNK-L49-B15
Sample Matrix: Kratom powder
Laboratory ID: 24-004872-0015
Evidence of Cooling: No
Temp: 18.3 °C
Serving Size #1: 2 g

Sample Results

Microbiology

Micro Profile L

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	400	cfu/g	100	05/09/24 AOAC 990.12 (Petrifilm) ^P	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	05/09/24 AOAC 991.14 (Petrifilm) ^P	100	pass	
Total Coliforms	< LOQ	cfu/g	100	05/09/24 AOAC 991.14 (Petrifilm) ^P	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	05/08/24 AOAC 2003.07 ^P			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	05/10/24 AOAC 2014.05 (RAPID) ^P	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	05/10/24 AOAC 2014.05 (RAPID) ^P	50,000	pass	
Listeria spp.	Negative	/25g	-	05/08/24 AOAC 2019.10 ^{P1}			
Salmonella spp. by PCR	Negative	/25g	-	05/08/24 AOAC 2020.02 ^{P2}	Negative	pass	

1) GENE-UP[®] Assay

2) GENE-UP[®] Assay

Mitragynine

Mitragynine + 7-Hydroxymitragynine

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	0.0301	%	0.0100	05/08/24 In house method by HPLC-DAD ^P			
Mitragynine	0.989	%	0.0500	05/08/24 In house method by HPLC-DAD ^P			

Mitragynine per serving

Mitragynine (+7OH) Serving Size 1

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine per Serving Size #1	0.602	mg/serv ing	0.200	05/13/24 In house method by HPLC-DAD ^P			
Mitragynine per Serving Size #1	19.8	mg/serv ing	1.00	05/13/24 In house method by HPLC-DAD ^P			



12423 NE Whitaker Way
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Report Number: 24-004872/D032.R000
Report Date: 05/13/2024
Purchase Order: andy050324
Received: 05/06/24 10:38 AM



Customer: Lamp Nutra
 3133 Tigar Run Ct Ste 104
 Carlsbad California 92010
 United States of America (USA)

Sample ID: LNK-L49-B16
Sample Matrix: Kratom powder
Laboratory ID: 24-004872-0016
Evidence of Cooling: No
Temp: 18.3 °C
Serving Size #1: 2 g

Sample Results

Microbiology

Micro Profile L

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	400	cfu/g	100	05/09/24 AOAC 990.12 (Petrifilm) ^P	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	05/09/24 AOAC 991.14 (Petrifilm) ^P	100	pass	
Total Coliforms	< LOQ	cfu/g	100	05/09/24 AOAC 991.14 (Petrifilm) ^P	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	05/08/24 AOAC 2003.07 ^P			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	05/10/24 AOAC 2014.05 (RAPID) ^P	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	05/10/24 AOAC 2014.05 (RAPID) ^P	50,000	pass	
Listeria spp.	Negative	/25g	-	05/08/24 AOAC 2019.10 ^{P1}			
Salmonella spp. by PCR	Negative	/25g	-	05/08/24 AOAC 2020.02 ^{P2}	Negative	pass	

- 1) GENE-UP[®] Assay
 2) GENE-UP[®] Assay

Mitragynine

Mitragynine + 7-Hydroxymitragynine

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	0.0268	%	0.0100	05/08/24 In house method by HPLC-DAD ^P			
Mitragynine	1.02	%	0.0500	05/08/24 In house method by HPLC-DAD ^P			

Mitragynine per serving

Mitragynine (+7OH) Serving Size 1

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine per Serving Size #1	0.536	mg/serv ing	0.200	05/13/24 In house method by HPLC-DAD ^P			
Mitragynine per Serving Size #1	20.4	mg/serv ing	1.00	05/13/24 In house method by HPLC-DAD ^P			



12423 NE Whitaker Way
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Report Number: 24-004872/D034.R000
Report Date: 05/13/2024
Purchase Order: andy050324
Received: 05/06/24 10:38 AM



Customer: Lamp Nutra
 3133 Tigar Run Ct Ste 104
 Carlsbad California 92010
 United States of America (USA)

Sample ID: LNK-L49-B17
Sample Matrix: Kratom powder
Laboratory ID: 24-004872-0017
Evidence of Cooling: No
Temp: 18.3 °C
Serving Size #1: 2 g

Sample Results

Microbiology

Micro Profile L

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	5,900	cfu/g	100	05/09/24 AOAC 990.12 (Petrifilm) ^P	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	05/09/24 AOAC 991.14 (Petrifilm) ^P	100	pass	
Total Coliforms	< LOQ	cfu/g	100	05/09/24 AOAC 991.14 (Petrifilm) ^P	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	05/08/24 AOAC 2003.07 ^P			
Mold (RAPID Petrifilm)	400	cfu/g	100	05/10/24 AOAC 2014.05 (RAPID) ^P	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	05/10/24 AOAC 2014.05 (RAPID) ^P	50,000	pass	
Listeria spp.	Negative	/25g	-	05/08/24 AOAC 2019.10 ^{P1}			
Salmonella spp. by PCR	Negative	/25g	-	05/08/24 AOAC 2020.02 ^{P2}	Negative	pass	

- 1) GENE-UP[®] Assay
 2) GENE-UP[®] Assay

Mitragynine

Mitragynine + 7-Hydroxymitragynine

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	0.0255	%	0.0100	05/08/24 In house method by HPLC-DAD ^P			
Mitragynine	0.939	%	0.0500	05/08/24 In house method by HPLC-DAD ^P			

Mitragynine per serving

Mitragynine (+7OH) Serving Size 1

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine per Serving Size #1	0.510	mg/serv ing	0.200	05/13/24 In house method by HPLC-DAD ^P			
Mitragynine per Serving Size #1	18.8	mg/serv ing	1.00	05/13/24 In house method by HPLC-DAD ^P			



12423 NE Whitaker Way
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 503-254-1794

Report Number: 24-004872/D030.R000
Report Date: 05/13/2024
Purchase Order: andy050324
Received: 05/06/24 10:38 AM



Customer: Lamp Nutra
 3133 Tigar Run Ct Ste 104
 Carlsbad California 92010
 United States of America (USA)

Sample ID: LNK-L49-B18
Sample Matrix: Kratom powder
Laboratory ID: 24-004872-0018
Evidence of Cooling: No
Temp: 18.3 °C
Serving Size #1: 2 g

Sample Results

Microbiology

Micro Profile L

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	1,100	cfu/g	100	05/09/24 AOAC 990.12 (Petrifilm) ^P	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	05/09/24 AOAC 991.14 (Petrifilm) ^P	100	pass	
Total Coliforms	< LOQ	cfu/g	100	05/09/24 AOAC 991.14 (Petrifilm) ^P	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	05/08/24 AOAC 2003.07 ^P			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	05/10/24 AOAC 2014.05 (RAPID) ^P	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	05/10/24 AOAC 2014.05 (RAPID) ^P	50,000	pass	
Listeria spp.	Negative	/25g	-	05/08/24 AOAC 2019.10 ^{P1}			
Salmonella spp. by PCR	Negative	/25g	-	05/08/24 AOAC 2020.02 ^{P2}	Negative	pass	

- 1) GENE-UP® Assay
 2) GENE-UP® Assay

Mitragynine

Mitragynine + 7-Hydroxymitragynine

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	0.0255	%	0.0100	05/08/24 In house method by HPLC-DAD ^P			
Mitragynine	0.790	%	0.0500	05/08/24 In house method by HPLC-DAD ^P			

Mitragynine per serving

Mitragynine (+7OH) Serving Size 1

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine per Serving Size #1	0.510	mg/serv ing	0.200	05/13/24 In house method by HPLC-DAD ^P			
Mitragynine per Serving Size #1	15.8	mg/serv ing	1.00	05/13/24 In house method by HPLC-DAD ^P			



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

Report Number: 24-004872/D031.R000
Report Date: 05/13/2024
Purchase Order: andy050324
Received: 05/06/24 10:38 AM



Customer: Lamp Nutra
 3133 Tigar Run Ct Ste 104
 Carlsbad California 92010
 United States of America (USA)

Sample ID: LNK-L49-B19
Sample Matrix: Kratom powder
Laboratory ID: 24-004872-0019
Evidence of Cooling: No
Temp: 18.3 °C
Serving Size #1: 2 g

Sample Results

Microbiology

Micro Profile L

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	500	cfu/g	100	05/09/24 AOAC 990.12 (Petrifilm) ^P	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	05/09/24 AOAC 991.14 (Petrifilm) ^P	100	pass	
Total Coliforms	< LOQ	cfu/g	100	05/09/24 AOAC 991.14 (Petrifilm) ^P	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	05/08/24 AOAC 2003.07 ^P			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	05/10/24 AOAC 2014.05 (RAPID) ^P	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	05/10/24 AOAC 2014.05 (RAPID) ^P	50,000	pass	
Listeria spp.	Negative	/25g	-	05/08/24 AOAC 2019.10 ^P ₁			
Salmonella spp. by PCR	Negative	/25g	-	05/08/24 AOAC 2020.02 ^P ₂	Negative	pass	

- 1) GENE-UP[®] Assay
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Mitragynine

Mitragynine + 7-Hydroxymitragynine

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	0.0270	%	0.0100	05/08/24 In house method by HPLC-DAD ^P			
Mitragynine	0.930	%	0.0500	05/08/24 In house method by HPLC-DAD ^P			

Mitragynine per serving

Mitragynine (+7OH) Serving Size 1

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine per Serving Size #1	0.540	mg/serv ing	0.200	05/13/24 In house method by HPLC-DAD ^P			
Mitragynine per Serving Size #1	18.6	mg/serv ing	1.00	05/13/24 In house method by HPLC-DAD ^P			



12423 NE Whitaker Way
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 503-254-1794

Report Number: 24-004872/D035.R000
Report Date: 05/13/2024
Purchase Order: andy050324
Received: 05/06/24 10:38 AM



Customer: Lamp Nutra
 3133 Tigar Run Ct Ste 104
 Carlsbad California 92010
 United States of America (USA)

Sample ID: LNK-L49-B20
Sample Matrix: Kratom powder
Laboratory ID: 24-004872-0020
Evidence of Cooling: No
Temp: 18.3 °C
Serving Size #1: 2 g

Sample Results

Microbiology

Micro Profile L

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	300	cfu/g	100	05/09/24 AOAC 990.12 (Petrifilm) ^P	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	05/09/24 AOAC 991.14 (Petrifilm) ^P	100	pass	
Total Coliforms	< LOQ	cfu/g	100	05/09/24 AOAC 991.14 (Petrifilm) ^P	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	05/08/24 AOAC 2003.07 ^P			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	05/10/24 AOAC 2014.05 (RAPID) ^P	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	05/10/24 AOAC 2014.05 (RAPID) ^P	50,000	pass	
Listeria spp.	Negative	/25g	-	05/08/24 AOAC 2019.10 ^{P1}			
Salmonella spp. by PCR	Negative	/25g	-	05/08/24 AOAC 2020.02 ^{P2}	Negative	pass	

- 1) GENE-UP[®] Assay
 2) GENE-UP[®] Assay

Mitragynine

Mitragynine + 7-Hydroxymitragynine

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	0.0250	%	0.0100	05/08/24 In house method by HPLC-DAD ^P			
Mitragynine	0.895	%	0.0500	05/08/24 In house method by HPLC-DAD ^P			

Mitragynine per serving

Mitragynine (+7OH) Serving Size 1

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine per Serving Size #1	0.500	mg/serv ing	0.200	05/13/24 In house method by HPLC-DAD ^P			
Mitragynine per Serving Size #1	17.9	mg/serv ing	1.00	05/13/24 In house method by HPLC-DAD ^P			

Test results relate only to the parameters tested and to the samples as received by the laboratory. Test results meet all requirements of Columbia Laboratories quality assurance plan unless otherwise noted. This report shall not be reproduced, except in full, without the written consent of this laboratory. Samples will be retained for a maximum of 30 days from the receipt date unless prior arrangements have been made.



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503-254-1794

Report Number: 24-004872/D039.R000
Report Date: 05/13/2024
Purchase Order: andy050324
Received: 05/06/24 10:38 AM



Customer: Lamp Nutra
3133 Tigar Run Ct Ste 104
Carlsbad California 92010
United States of America (USA)

Sample ID: LNK-L49-B21
Sample Matrix: Kratom powder
Laboratory ID: 24-004872-0021
Evidence of Cooling: No
Temp: 18.3 °C
Serving Size #1: 2 g

Sample Results

Microbiology

Micro Profile L

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	1,900	cfu/g	100	05/09/24 AOAC 990.12 (Petrifilm) ^P	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	05/09/24 AOAC 991.14 (Petrifilm) ^P	100	pass	
Total Coliforms	< LOQ	cfu/g	100	05/09/24 AOAC 991.14 (Petrifilm) ^P	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	05/08/24 AOAC 2003.07 ^P			
Mold (RAPID Petrifilm)	100	cfu/g	100	05/10/24 AOAC 2014.05 (RAPID) ^P	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	05/10/24 AOAC 2014.05 (RAPID) ^P	50,000	pass	
Listeria spp.	Negative	/25g	-	05/08/24 AOAC 2019.10 ^{P1}			
Salmonella spp. by PCR	Negative	/25g	-	05/08/24 AOAC 2020.02 ^{P2}	Negative	pass	

- 1) GENE-UP[®] Assay
2) GENE-UP[®] Assay

Mitragynine

Mitragynine + 7-Hydroxymitragynine

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	0.0181	%	0.0100	05/10/24 In house method by HPLC-DAD ^P			
Mitragynine	1.17	%	0.0500	05/10/24 In house method by HPLC-DAD ^P			

Mitragynine per serving

Mitragynine (+7OH) Serving Size 1

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine per Serving Size #1	0.362	mg/serv ing	0.200	05/10/24 In house method by HPLC-DAD ^P			
Mitragynine per Serving Size #1	23.4	mg/serv ing	1.00	05/10/24 In house method by HPLC-DAD ^P			



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Report Number: 24-004872/D041.R000
Report Date: 05/13/2024
Purchase Order: andy050324
Received: 05/06/24 10:38 AM



Customer: Lamp Nutra
 3133 Tigar Run Ct Ste 104
 Carlsbad California 92010
 United States of America (USA)

Sample ID: LNK-L49-B22
Sample Matrix: Kratom powder
Laboratory ID: 24-004872-0022
Evidence of Cooling: No
Temp: 18.3 °C
Serving Size #1: 2 g

Sample Results

Microbiology

Micro Profile L

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	300	cfu/g	100	05/09/24 AOAC 990.12 (Petrifilm) ^p	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	05/09/24 AOAC 991.14 (Petrifilm) ^p	100	pass	
Total Coliforms	< LOQ	cfu/g	100	05/09/24 AOAC 991.14 (Petrifilm) ^p	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	05/08/24 AOAC 2003.07 ^p			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	05/10/24 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	05/10/24 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Listeria spp.	Negative	/25g	-	05/08/24 AOAC 2019.10 ^{p1}			
Salmonella spp. by PCR	Negative	/25g	-	05/08/24 AOAC 2020.02 ^{p2}	Negative	pass	

- 1) GENE-UP[®] Assay
 2) GENE-UP[®] Assay

Mitragynine

Mitragynine + 7-Hydroxymitragynine

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	0.0249	%	0.0100	05/10/24 In house method by HPLC-DAD ^p			
Mitragynine	1.21	%	0.0500	05/10/24 In house method by HPLC-DAD ^p			

Mitragynine per serving

Mitragynine (+7OH) Serving Size 1

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine per Serving Size #1	0.498	mg/serv ing	0.200	05/10/24 In house method by HPLC-DAD ^p			
Mitragynine per Serving Size #1	24.2	mg/serv ing	1.00	05/10/24 In house method by HPLC-DAD ^p			



12423 NE Whitaker Way
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503-254-1794

Report Number: 24-004872/D037.R000
Report Date: 05/13/2024
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Received: 05/06/24 10:38 AM



Customer: Lamp Nutra
3133 Tigar Run Ct Ste 104
Carlsbad California 92010
United States of America (USA)

Sample ID: LNK-L49-B23
Sample Matrix: Kratom powder
Laboratory ID: 24-004872-0023
Evidence of Cooling: No
Temp: 18.3 °C
Serving Size #1: 2 g

Sample Results

Microbiology

Micro Profile L

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	< LOQ	cfu/g	100	05/09/24 AOAC 990.12 (Petrifilm) ^p	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	05/09/24 AOAC 991.14 (Petrifilm) ^p	100	pass	
Total Coliforms	< LOQ	cfu/g	100	05/09/24 AOAC 991.14 (Petrifilm) ^p	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	05/08/24 AOAC 2003.07 ^p			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	05/10/24 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	05/10/24 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Listeria spp.	Negative	/25g	-	05/08/24 AOAC 2019.10 ^{p1}			
Salmonella spp. by PCR	Negative	/25g	-	05/08/24 AOAC 2020.02 ^{p2}	Negative	pass	

- 1) GENE-UP® Assay
2) GENE-UP® Assay

Mitragynine

Mitragynine + 7-Hydroxymitragynine

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	0.0277	%	0.0100	05/10/24 In house method by HPLC-DAD ^p			
Mitragynine	1.16	%	0.0500	05/10/24 In house method by HPLC-DAD ^p			

Mitragynine per serving

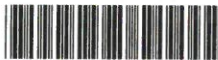
Mitragynine (+7OH) Serving Size 1

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine per Serving Size #1	0.554	mg/serv ing	0.200	05/10/24 In house method by HPLC-DAD ^p			
Mitragynine per Serving Size #1	23.2	mg/serv ing	1.00	05/10/24 In house method by HPLC-DAD ^p			



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Report Number: 24-004872/D038.R000
Report Date: 05/13/2024
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Customer: Lamp Nutra
3133 Tigar Run Ct Ste 104
Carlsbad California 92010
United States of America (USA)

Sample ID: LNK-L49-B24
Sample Matrix: Kratom powder
Laboratory ID: 24-004872-0024
Evidence of Cooling: No
Temp: 18.3 °C
Serving Size #1: 2 g

Sample Results

Microbiology

Micro Profile L

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	400	cfu/g	100	05/09/24 AOAC 990.12 (Petrifilm) ^P	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	05/09/24 AOAC 991.14 (Petrifilm) ^P	100	pass	
Total Coliforms	< LOQ	cfu/g	100	05/09/24 AOAC 991.14 (Petrifilm) ^P	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	05/08/24 AOAC 2003.07 ^P			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	05/10/24 AOAC 2014.05 (RAPID) ^P	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	05/10/24 AOAC 2014.05 (RAPID) ^P	50,000	pass	
Listeria spp.	Negative	/25g	-	05/08/24 AOAC 2019.10 ^{P1}			
Salmonella spp. by PCR	Negative	/25g	-	05/08/24 AOAC 2020.02 ^{P2}	Negative	pass	

1) GENE-UP[®] Assay

2) GENE-UP[®] Assay

Mitragynine

Mitragynine + 7-Hydroxymitragynine

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	0.0253	%	0.0100	05/10/24 In house method by HPLC-DAD ^P			
Mitragynine	1.15	%	0.0500	05/10/24 In house method by HPLC-DAD ^P			

Mitragynine per serving

Mitragynine (+7OH) Serving Size 1

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine per Serving Size #1	0.506	mg/serving	0.200	05/10/24 In house method by HPLC-DAD ^P			
Mitragynine per Serving Size #1	23.0	mg/serving	1.00	05/10/24 In house method by HPLC-DAD ^P			



12423 NE Whitaker Way
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Report Number: 24-004872/D036.R000
Report Date: 05/13/2024
Purchase Order: andy050324
Received: 05/06/24 10:38 AM



Customer: Lamp Nutra
 3133 Tigar Run Ct Ste 104
 Carlsbad California 92010
 United States of America (USA)

Sample ID: LNK-L49-B25
Sample Matrix: Kratom powder
Laboratory ID: 24-004872-0025
Evidence of Cooling: No
Temp: 18.3 °C
Serving Size #1: 2 g

Sample Results

Microbiology

Micro Profile L

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	900	cfu/g	100	05/09/24 AOAC 990.12 (Petrifilm) ^P	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	05/09/24 AOAC 991.14 (Petrifilm) ^P	100	pass	
Total Coliforms	< LOQ	cfu/g	100	05/09/24 AOAC 991.14 (Petrifilm) ^P	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	05/08/24 AOAC 2003.07 ^P			
Mold (RAPID Petrifilm)	300	cfu/g	100	05/10/24 AOAC 2014.05 (RAPID) ^P	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	05/10/24 AOAC 2014.05 (RAPID) ^P	50,000	pass	
Listeria spp.	Negative	/25g	-	05/08/24 AOAC 2019.10 ^P ₁			
Salmonella spp. by PCR	Negative	/25g	-	05/08/24 AOAC 2020.02 ^P ₂	Negative	pass	

- 1) GENE-UP[®] Assay
 2) GENE-UP[®] Assay

Mitragynine

Mitragynine + 7-Hydroxymitragynine

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	0.0239	%	0.0100	05/10/24 In house method by HPLC-DAD ^P			
Mitragynine	1.03	%	0.0500	05/10/24 In house method by HPLC-DAD ^P			

Mitragynine per serving

Mitragynine (+7OH) Serving Size 1

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine per Serving Size #1	0.478	mg/serv ing	0.200	05/10/24 In house method by HPLC-DAD ^P			
Mitragynine per Serving Size #1	20.6	mg/serv ing	1.00	05/10/24 In house method by HPLC-DAD ^P			



12423 NE Whitaker Way
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Report Number: 24-004872/D040.R000
Report Date: 05/13/2024
Purchase Order: andy050324
Received: 05/06/24 10:38 AM



Customer: Lamp Nutra
 3133 Tigar Run Ct Ste 104
 Carlsbad California 92010
 United States of America (USA)

Sample ID: LNK-L49-B26
Sample Matrix: Kratom powder
Laboratory ID: 24-004872-0026
Evidence of Cooling: No
Temp: 18.3 °C
Serving Size #1: 2 g

Sample Results

Microbiology

Micro Profile L

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	1,600	cfu/g	100	05/09/24 AOAC 990.12 (Petrifilm) ^P	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	05/09/24 AOAC 991.14 (Petrifilm) ^P	100	pass	
Total Coliforms	< LOQ	cfu/g	100	05/09/24 AOAC 991.14 (Petrifilm) ^P	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	05/08/24 AOAC 2003.07 ^P			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	05/10/24 AOAC 2014.05 (RAPID) ^P	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	05/10/24 AOAC 2014.05 (RAPID) ^P	50,000	pass	
Listeria spp.	Negative	/25g	-	05/08/24 AOAC 2019.10 ^{P1}			
Salmonella spp. by PCR	Negative	/25g	-	05/08/24 AOAC 2020.02 ^{P2}	Negative	pass	

- 1) GENE-UP® Assay
 2) GENE-UP® Assay

Mitragynine

Mitragynine + 7-Hydroxymitragynine

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	0.0225	%	0.0100	05/10/24 In house method by HPLC-DAD ^P			
Mitragynine	1.17	%	0.0500	05/10/24 In house method by HPLC-DAD ^P			

Mitragynine per serving

Mitragynine (+7OH) Serving Size 1

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine per Serving Size #1	0.450	mg/serv ing	0.200	05/10/24 In house method by HPLC-DAD ^P			
Mitragynine per Serving Size #1	23.4	mg/serv ing	1.00	05/10/24 In house method by HPLC-DAD ^P			

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12423 NE Whitaker Way
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Report Number: 24-004872/D029.R000
Report Date: 05/13/2024
Purchase Order: andy050324
Received: 05/06/24 10:38 AM



Customer: Lamp Nutra
 3133 Tigar Run Ct Ste 104
 Carlsbad California 92010
 United States of America (USA)

Sample ID: LNK-L49-B27
Sample Matrix: Kratom powder
Laboratory ID: 24-004872-0027
Evidence of Cooling: No
Temp: 18.3 °C
Serving Size #1: 2 g

Sample Results

Microbiology

Micro Profile L

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	1,600	cfu/g	100	05/09/24 AOAC 990.12 (Petrifilm) ^P	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	05/09/24 AOAC 991.14 (Petrifilm) ^P	100	pass	
Total Coliforms	< LOQ	cfu/g	100	05/09/24 AOAC 991.14 (Petrifilm) ^P	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	05/08/24 AOAC 2003.07 ^P			
Mold (RAPID Petrifilm)	200	cfu/g	100	05/10/24 AOAC 2014.05 (RAPID) ^P	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	05/10/24 AOAC 2014.05 (RAPID) ^P	50,000	pass	
Listeria spp.	Negative	/25g	-	05/08/24 AOAC 2019.10 ^{P1}			
Salmonella spp. by PCR	Negative	/25g	-	05/08/24 AOAC 2020.02 ^{P2}	Negative	pass	

- 1) GENE-UP[®] Assay
 2) GENE-UP[®] Assay

Mitragynine

Mitragynine + 7-Hydroxymitragynine

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	0.0235	%	0.0100	05/10/24 In house method by HPLC-DAD ^P			
Mitragynine	1.13	%	0.0500	05/10/24 In house method by HPLC-DAD ^P			

Mitragynine per serving

Mitragynine (+7OH) Serving Size 1

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine per Serving Size #1	0.470	mg/serving	0.200	05/10/24 In house method by HPLC-DAD ^P			
Mitragynine per Serving Size #1	22.6	mg/serving	1.00	05/10/24 In house method by HPLC-DAD ^P			

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