



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

**Report Number:** 24-003859/D001.R000  
**Report Date:** 04/16/2024  
**Purchase Order:** andy040524  
**Received:** 04/09/24 11:03 AM



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

**Sample ID:** LNK-L48-B1  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 24-003859-0001  
**Evidence of Cooling:** No  
**Temp:** 18.6 °C

### Sample Results

#### Metals

#### Heavy Metals Profile K

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Arsenic	0.162	mg/kg	0.0184	04/11/24 AOAC 2013.06 (mod.) <sup>p</sup>	1.50	pass	
Cadmium	0.0286	mg/kg	0.0184	04/11/24 AOAC 2013.06 (mod.) <sup>p</sup>	0.500	pass	
Lead	0.664	mg/kg	0.0184	04/11/24 AOAC 2013.06 (mod.) <sup>p</sup>	1.00	pass	
Mercury	0.0221	mg/kg	0.00920	04/11/24 AOAC 2013.06 (mod.) <sup>p</sup>	0.200	pass	
Nickel	2.41	mg/kg	0.0184	04/11/24 AOAC 2013.06 (mod.) <sup>p</sup>	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

<sup>p</sup> = ISO/IEC 17025:2017 accredited method.

#### Units of Measure

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

Approved Signatory

Derrick Tanner  
General Manager



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

**Report Number:** 24-003859/D002.R000  
**Report Date:** 04/16/2024  
**Purchase Order:** andy040524  
**Received:** 04/09/24 11:03 AM



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

**Sample ID:** LNK-L48-B1  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 24-003859-0001  
**Evidence of Cooling:** No  
**Temp:** 18.6 °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	1,800	cfu/g	100	04/12/24 AOAC 990.12 (Petrifilm) <sup>b</sup>	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	04/12/24 AOAC 991.14 (Petrifilm) <sup>b</sup>	100	pass	
Total Coliforms	< LOQ	cfu/g	100	04/12/24 AOAC 991.14 (Petrifilm) <sup>b</sup>	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	04/11/24 AOAC 2003.07 <sup>b</sup>			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	04/13/24 AOAC 2014.05 (RAPID) <sup>b</sup>	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	04/13/24 AOAC 2014.05 (RAPID) <sup>b</sup>	50,000	pass	
Listeria spp.	Negative	/25g	-	04/11/24 AOAC 2019.10 <sup>b</sup> <sub>1</sub>			
Salmonella spp. by PCR	Negative	/25g	-	04/11/24 AOAC 2020.02 <sup>b</sup> <sub>2</sub>	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	0.0429	%	0.0100	04/11/24 In house method by HPLC-DAD <sup>b</sup>			
Mitragynine	1.55	%	0.0500	04/11/24 In house method by HPLC-DAD <sup>b</sup>			

#### Mitragynine per serving

##### Mitragynine (+7OH) Serving Size 1

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine per Serving Size #1	0.858	mg/serv ing	0.200	04/16/24 In house method by HPLC-DAD <sup>b</sup>			
Mitragynine per Serving Size #1	31.0	mg/serv ing	1.00	04/16/24 In house method by HPLC-DAD <sup>b</sup>			

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:** 24-003859/D003.R000  
**Report Date:** 04/16/2024  
**Purchase Order:** andy040524  
**Received:** 04/09/24 11:03 AM



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

**Sample ID:** LNK-L48-B2  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 24-003859-0002  
**Evidence of Cooling:** No  
**Temp:** 18.6 °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	1,400	cfu/g	100	04/12/24 AOAC 990.12 (Petrifilm) <sup>b</sup>	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	04/12/24 AOAC 991.14 (Petrifilm) <sup>b</sup>	100	pass	
Total Coliforms	< LOQ	cfu/g	100	04/12/24 AOAC 991.14 (Petrifilm) <sup>b</sup>	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	04/11/24 AOAC 2003.07 <sup>b</sup>			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	04/13/24 AOAC 2014.05 (RAPID) <sup>b</sup>	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	04/13/24 AOAC 2014.05 (RAPID) <sup>b</sup>	50,000	pass	
Listeria spp.	Negative	/25g	-	04/11/24 AOAC 2019.10 <sup>b</sup> <sub>1</sub>			
Salmonella spp. by PCR	Negative	/25g	-	04/11/24 AOAC 2020.02 <sup>b</sup> <sub>2</sub>	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	0.0465	%	0.0100	04/11/24 In house method by HPLC-DAD <sup>b</sup>			
Mitragynine	1.54	%	0.0500	04/11/24 In house method by HPLC-DAD <sup>b</sup>			

#### Mitragynine per serving

##### Mitragynine (+7OH) Serving Size 1

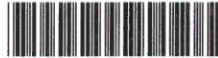
Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine per Serving Size #1	0.930	mg/serv ing	0.200	04/16/24 In house method by HPLC-DAD <sup>b</sup>			
Mitragynine per Serving Size #1	30.8	mg/serv ing	1.00	04/16/24 In house method by HPLC-DAD <sup>b</sup>			

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:** 24-003859/D004.R000  
**Report Date:** 04/16/2024  
**Purchase Order:** andy040524  
**Received:** 04/09/24 11:03 AM



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

**Sample ID:** LNK-L48-B3  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 24-003859-0003  
**Evidence of Cooling:** No  
**Temp:** 18.6 °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	3,000	cfu/g	100	04/12/24 AOAC 990.12 (Petrifilm) <sup>p</sup>	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	04/12/24 AOAC 991.14 (Petrifilm) <sup>p</sup>	100	pass	
Total Coliforms	< LOQ	cfu/g	100	04/12/24 AOAC 991.14 (Petrifilm) <sup>p</sup>	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	04/11/24 AOAC 2003.07 <sup>p</sup>			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	04/13/24 AOAC 2014.05 (RAPID) <sup>p</sup>	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	04/13/24 AOAC 2014.05 (RAPID) <sup>p</sup>	50,000	pass	
Listeria spp.	Negative	/25g	-	04/11/24 AOAC 2019.10 <sup>p1</sup>			
Salmonella spp. by PCR	Negative	/25g	-	04/11/24 AOAC 2020.02 <sup>p2</sup>	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	0.0487	%	0.0100	04/11/24 In house method by HPLC-DAD <sup>p</sup>			
Mitragynine	1.53	%	0.0500	04/11/24 In house method by HPLC-DAD <sup>p</sup>			

#### Mitragynine per serving

##### Mitragynine (+7OH) Serving Size 1

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine per Serving Size #1	0.974	mg/serv ing	0.200	04/16/24 In house method by HPLC-DAD <sup>p</sup>			
Mitragynine per Serving Size #1	30.6	mg/serv ing	1.00	04/16/24 In house method by HPLC-DAD <sup>p</sup>			



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

**Report Number:** 24-003859/D005.R000  
**Report Date:** 04/16/2024  
**Purchase Order:** andy040524  
**Received:** 04/09/24 11:03 AM



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

**Sample ID:** LNK-L48-B4  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 24-003859-0004  
**Evidence of Cooling:** No  
**Temp:** 18.6 °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	2,900	cfu/g	100	04/12/24 AOAC 990.12 (Petrifilm) <sup>p</sup>	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	04/12/24 AOAC 991.14 (Petrifilm) <sup>p</sup>	100	pass	
Total Coliforms	< LOQ	cfu/g	100	04/12/24 AOAC 991.14 (Petrifilm) <sup>p</sup>	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	04/11/24 AOAC 2003.07 <sup>p</sup>			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	04/13/24 AOAC 2014.05 (RAPID) <sup>p</sup>	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	04/13/24 AOAC 2014.05 (RAPID) <sup>p</sup>	50,000	pass	
Listeria spp.	Negative	/25g	-	04/11/24 AOAC 2019.10 <sup>p1</sup>			
Salmonella spp. by PCR	Negative	/25g	-	04/11/24 AOAC 2020.02 <sup>p2</sup>	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	0.0547	%	0.0100	04/11/24 In house method by HPLC-DAD <sup>p</sup>			
Mitragynine	1.45	%	0.0500	04/11/24 In house method by HPLC-DAD <sup>p</sup>			

#### Mitragynine per serving

##### Mitragynine (+7OH) Serving Size 1

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine per Serving Size #1	1.09	mg/serv ing	0.200	04/16/24 In house method by HPLC-DAD <sup>p</sup>			
Mitragynine per Serving Size #1	29.0	mg/serv ing	1.00	04/16/24 In house method by HPLC-DAD <sup>p</sup>			



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

**Report Number:** 24-003859/D006.R000  
**Report Date:** 04/16/2024  
**Purchase Order:** andy040524  
**Received:** 04/09/24 11:03 AM



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

**Sample ID:** LNK-L48-B5  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 24-003859-0005  
**Evidence of Cooling:** No  
**Temp:** 18.6 °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	1,400	cfu/g	100	04/12/24 AOAC 990.12 (Petrifilm) <sup>p</sup>	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	04/12/24 AOAC 991.14 (Petrifilm) <sup>p</sup>	100	pass	
Total Coliforms	< LOQ	cfu/g	100	04/12/24 AOAC 991.14 (Petrifilm) <sup>p</sup>	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	04/11/24 AOAC 2003.07 <sup>p</sup>			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	04/13/24 AOAC 2014.05 (RAPID) <sup>p</sup>	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	04/13/24 AOAC 2014.05 (RAPID) <sup>p</sup>	50,000	pass	
Listeria spp.	Negative	/25g	-	04/11/24 AOAC 2019.10 <sup>p1</sup>			
Salmonella spp. by PCR	Negative	/25g	-	04/11/24 AOAC 2020.02 <sup>p2</sup>	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	0.0416	%	0.0100	04/11/24 In house method by HPLC-DAD <sup>p</sup>			
Mitragynine	1.53	%	0.0500	04/11/24 In house method by HPLC-DAD <sup>p</sup>			

#### Mitragynine per serving

##### Mitragynine (+7OH) Serving Size 1

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine per Serving Size #1	0.832	mg/serv ing	0.200	04/16/24 In house method by HPLC-DAD <sup>p</sup>			
Mitragynine per Serving Size #1	30.6	mg/serv ing	1.00	04/16/24 In house method by HPLC-DAD <sup>p</sup>			



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

**Report Number:** 24-003859/D007.R000  
**Report Date:** 04/16/2024  
**Purchase Order:** andy040524  
**Received:** 04/09/24 11:03 AM



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

**Sample ID:** LNK-L48-B6  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 24-003859-0006  
**Evidence of Cooling:** No  
**Temp:** 18.6 °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	2,600	cfu/g	100	04/12/24 AOAC 990.12 (Petrifilm) <sup>p</sup>	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	04/12/24 AOAC 991.14 (Petrifilm) <sup>p</sup>	100	pass	
Total Coliforms	< LOQ	cfu/g	100	04/12/24 AOAC 991.14 (Petrifilm) <sup>p</sup>	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	04/11/24 AOAC 2003.07 <sup>p</sup>			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	04/13/24 AOAC 2014.05 (RAPID) <sup>p</sup>	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	04/13/24 AOAC 2014.05 (RAPID) <sup>p</sup>	50,000	pass	
Listeria spp.	Negative	/25g	-	04/11/24 AOAC 2019.10 <sup>p1</sup>			
Salmonella spp. by PCR	Negative	/25g	-	04/11/24 AOAC 2020.02 <sup>p2</sup>	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	0.0452	%	0.0100	04/11/24 In house method by HPLC-DAD <sup>p</sup>			
Mitragynine	1.54	%	0.0500	04/11/24 In house method by HPLC-DAD <sup>p</sup>			

#### Mitragynine per serving

##### Mitragynine (+7OH) Serving Size 1

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine per Serving Size #1	0.904	mg/serv ing	0.200	04/16/24 In house method by HPLC-DAD <sup>p</sup>			
Mitragynine per Serving Size #1	30.8	mg/serv ing	1.00	04/16/24 In house method by HPLC-DAD <sup>p</sup>			



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

**Report Number:** 24-003859/D008.R000  
**Report Date:** 04/16/2024  
**Purchase Order:** andy040524  
**Received:** 04/09/24 11:03 AM



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

**Sample ID:** LNK-L48-B7  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 24-003859-0007  
**Evidence of Cooling:** No  
**Temp:** 18.6 °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	4,900	cfu/g	100	04/12/24 AOAC 990.12 (Petrifilm) <sup>P</sup>	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	04/12/24 AOAC 991.14 (Petrifilm) <sup>P</sup>	100	pass	
Total Coliforms	< LOQ	cfu/g	100	04/12/24 AOAC 991.14 (Petrifilm) <sup>P</sup>	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	04/11/24 AOAC 2003.07 <sup>P</sup>			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	04/13/24 AOAC 2014.05 (RAPID) <sup>P</sup>	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	04/13/24 AOAC 2014.05 (RAPID) <sup>P</sup>	50,000	pass	
Listeria spp.	Negative	/25g	-	04/11/24 AOAC 2019.10 <sup>P</sup> <sub>1</sub>			
Salmonella spp. by PCR	Negative	/25g	-	04/11/24 AOAC 2020.02 <sup>P</sup> <sub>2</sub>	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	0.0515	%	0.0100	04/11/24 In house method by HPLC-DAD <sup>P</sup>			
Mitragynine	1.57	%	0.0500	04/11/24 In house method by HPLC-DAD <sup>P</sup>			

#### Mitragynine per serving

##### Mitragynine (+7OH) Serving Size 1

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine per Serving Size #1	1.03	mg/serv ing	0.200	04/16/24 In house method by HPLC-DAD <sup>P</sup>			
Mitragynine per Serving Size #1	31.4	mg/serv ing	1.00	04/16/24 In house method by HPLC-DAD <sup>P</sup>			



12423 NE Whitaker Way  
Portland, OR 97230  
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**Report Number:** 24-003859/D009.R000  
**Report Date:** 04/16/2024  
**Purchase Order:** andy040524  
**Received:** 04/09/24 11:03 AM



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

**Sample ID:** LNK-L48-B8  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 24-003859-0008  
**Evidence of Cooling:** No  
**Temp:** 18.6 °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	100	cfu/g	100	04/12/24 AOAC 990.12 (Petrifilm) <sup>p</sup>	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	04/12/24 AOAC 991.14 (Petrifilm) <sup>p</sup>	100	pass	
Total Coliforms	< LOQ	cfu/g	100	04/12/24 AOAC 991.14 (Petrifilm) <sup>p</sup>	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	04/11/24 AOAC 2003.07 <sup>p</sup>			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	04/13/24 AOAC 2014.05 (RAPID) <sup>p</sup>	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	04/13/24 AOAC 2014.05 (RAPID) <sup>p</sup>	50,000	pass	
Listeria spp.	Negative	/25g	-	04/11/24 AOAC 2019.10 <sup>p1</sup>			
Salmonella spp. by PCR	Negative	/25g	-	04/11/24 AOAC 2020.02 <sup>p2</sup>	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	0.0528	%	0.0100	04/11/24 In house method by HPLC-DAD <sup>p</sup>			
Mitragynine	1.44	%	0.0500	04/11/24 In house method by HPLC-DAD <sup>p</sup>			

#### Mitragynine per serving

##### Mitragynine (+7OH) Serving Size 1

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine per Serving Size #1	1.06	mg/serv ing	0.200	04/16/24 In house method by HPLC-DAD <sup>p</sup>			
Mitragynine per Serving Size #1	28.8	mg/serv ing	1.00	04/16/24 In house method by HPLC-DAD <sup>p</sup>			



12423 NE Whitaker Way  
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**Report Number:** 24-003859/D010.R000  
**Report Date:** 04/16/2024  
**Purchase Order:** andy040524  
**Received:** 04/09/24 11:03 AM



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

**Sample ID:** LNK-L48-B9  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 24-003859-0009  
**Evidence of Cooling:** No  
**Temp:** 18.6 °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	04/12/24 AOAC 990.12 (Petrifilm) <sup>p</sup>	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	04/12/24 AOAC 991.14 (Petrifilm) <sup>p</sup>	100	pass	
Total Coliforms	< LOQ	cfu/g	100	04/12/24 AOAC 991.14 (Petrifilm) <sup>p</sup>	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	04/11/24 AOAC 2003.07 <sup>p</sup>			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	04/13/24 AOAC 2014.05 (RAPID) <sup>p</sup>	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	04/13/24 AOAC 2014.05 (RAPID) <sup>p</sup>	50,000	pass	
Listeria spp.	Negative	/25g	-	04/11/24 AOAC 2019.10 <sup>p1</sup>			
Salmonella spp. by PCR	Negative	/25g	-	04/11/24 AOAC 2020.02 <sup>p2</sup>	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	0.0554	%	0.0100	04/11/24 In house method by HPLC-DAD <sup>p</sup>			
Mitragynine	1.50	%	0.0500	04/11/24 In house method by HPLC-DAD <sup>p</sup>			

#### Mitragynine per serving

##### Mitragynine (+7OH) Serving Size 1

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine per Serving Size #1	1.11	mg/serv ing	0.200	04/16/24 In house method by HPLC-DAD <sup>p</sup>			
Mitragynine per Serving Size #1	30.0	mg/serv ing	1.00	04/16/24 In house method by HPLC-DAD <sup>p</sup>			



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

**Report Number:** 24-003859/D011.R000  
**Report Date:** 04/16/2024  
**Purchase Order:** andy040524  
**Received:** 04/09/24 11:03 AM



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

**Sample ID:** LNK-L48-B10  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 24-003859-0010  
**Evidence of Cooling:** No  
**Temp:** 18.6 °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	04/12/24 AOAC 990.12 (Petrifilm) <sup>p</sup>	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	04/12/24 AOAC 991.14 (Petrifilm) <sup>p</sup>	100	pass	
Total Coliforms	< LOQ	cfu/g	100	04/12/24 AOAC 991.14 (Petrifilm) <sup>p</sup>	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	04/11/24 AOAC 2003.07 <sup>p</sup>			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	04/13/24 AOAC 2014.05 (RAPID) <sup>p</sup>	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	04/13/24 AOAC 2014.05 (RAPID) <sup>p</sup>	50,000	pass	
Listeria spp.	Negative	/25g	-	04/11/24 AOAC 2019.10 <sup>p1</sup>			
Salmonella spp. by PCR	Negative	/25g	-	04/11/24 AOAC 2020.02 <sup>p2</sup>	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	0.0552	%	0.0100	04/11/24 In house method by HPLC-DAD <sup>p</sup>			
Mitragynine	1.47	%	0.0500	04/11/24 In house method by HPLC-DAD <sup>p</sup>			

#### Mitragynine per serving

##### Mitragynine (+7OH) Serving Size 1

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine per Serving Size #1	1.10	mg/serv ing	0.200	04/16/24 In house method by HPLC-DAD <sup>p</sup>			
Mitragynine per Serving Size #1	29.4	mg/serv ing	1.00	04/16/24 In house method by HPLC-DAD <sup>p</sup>			