



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

**Sample ID:** LNK-L36-B1  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 22-013941-0001  
**Evidence of Cooling:** No  
**Temp:** 18.1 °C  
**Relinquished by:** UPS

### Sample Results

#### Microbiology

##### Micro Profile L Rapid (M6000)

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	200,000	cfu/g	10,000	11/18/22 AOAC 990.12 (Petrifilm) <sup>p</sup>	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	11/18/22 AOAC 991.14 (Petrifilm) <sup>p</sup>	100	pass	
Total Coliforms	1,500	cfu/g	100	11/18/22 AOAC 991.14 (Petrifilm) <sup>p</sup>	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	11/17/22 AOAC 2003.07 <sup>p</sup>			
Mold (RAPID Petrifilm)	6,000	cfu/g	1,000	11/19/22 AOAC 2014.05 (RAPID) <sup>p</sup>	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	11/19/22 AOAC 2014.05 (RAPID) <sup>p</sup>	50,000	pass	
Listeria spp.	Negative	/15g	-	11/17/22 AOAC 2019.10 <sup>b</sup> <sub>1</sub>			I
Salmonella spp. by PCR	Negative	/25g	-	11/17/22 AOAC 2020.02 <sup>b</sup> <sub>2</sub>	Negative	pass	

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

#### Abbreviations

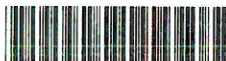
**Limit(s) of Quantitation (LOQ):** The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

**Threshold Note:** limits based on AHPA recommended limits for unprocessed herbs and supplements and ingredients

#### Glossary of Qualifiers

I: Insufficient sample received to meet method requirements.

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



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

**Sample ID:** LNK-L36-B1  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 22-013941-0001-01  
**Evidence of Cooling:** No  
**Temp:** 18.1 °C  
**Relinquished by:** UPS

### Sample Results

#### Mitragynine

#### Mitragynine + 7-Hydroxymitragynine (S3200)

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine	0.0173	%	0.0100	11/18/22	In house method by HPLC-DAD	
Mitragynine	1.32	%	0.0500	11/18/22	In house method by HPLC-DAD	

#### 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.

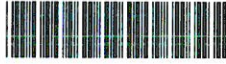
#### Units of Measure

% = Percentage of sample

Approved Signatory



Derrick Tanner  
General Manager



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

**Sample ID:** LNK-L36-B2  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 22-013941-0002  
**Evidence of Cooling:** No  
**Temp:** 18.1 °C  
**Relinquished by:** UPS

### Sample Results

#### Microbiology

##### Micro Profile L Rapid (M6000)

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	190,000	cfu/g	10,000	11/18/22 AOAC 990.12 (Petrifilm) <sup>P</sup>	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	11/18/22 AOAC 991.14 (Petrifilm) <sup>P</sup>	100	pass	
Total Coliforms	2,300	cfu/g	100	11/18/22 AOAC 991.14 (Petrifilm) <sup>P</sup>	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	11/17/22 AOAC 2003.07 <sup>P</sup>			
Mold (RAPID Petrifilm)	11,000	cfu/g	1,000	11/19/22 AOAC 2014.05 (RAPID) <sup>P</sup>	50,000	pass	
Yeast (RAPID Petrifilm)	300	cfu/g	100	11/19/22 AOAC 2014.05 (RAPID) <sup>P</sup>	50,000	pass	
Listeria spp.	Negative	/15g	-	11/17/22 AOAC 2019.10 <sup>P1</sup>			I
Salmonella spp. by PCR	Negative	/25g	-	11/17/22 AOAC 2020.02 <sup>P2</sup>	Negative	pass	

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

#### 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

#### Glossary of Qualifiers

I: Insufficient sample received to meet method requirements.

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



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

Report Number: 22-013941/D018.R000  
Report Date: 11/23/2022  
Purchase Order: ANDY111122  
Received: 11/14/22 09:38 AM



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

Sample ID: LNK-L36-B2

Sample Matrix: Kratom powder

Laboratory ID: 22-013941-0002-01

Evidence of Cooling: No

Temp: 18.1 °C

Relinquished by: UPS

### Sample Results

#### Mitragynine

#### Mitragynine + 7-Hydroxymitragynine (S3200)

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine	0.0178	%	0.0100	11/18/22	In house method by HPLC-DAD	
Mitragynine	1.37	%	0.0500	11/18/22	In house method by HPLC-DAD	

#### Abbreviations

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#### Units of Measure

% = Percentage of sample

Approved Signatory

Derrick Tanner  
General Manager



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

**Sample ID:** LNK-L36-B3  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 22-013941-0003  
**Evidence of Cooling:** No  
**Temp:** 18.1 °C  
**Relinquished by:** UPS

### Sample Results

#### Microbiology

##### Micro Profile L Rapid (M6000)

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	180,000	cfu/g	10,000	11/18/22 AOAC 990.12 (Petrifilm) <sup>p</sup>	10,000,000	pass	
E. coli	< LOQ	cfu/g	100	11/18/22 AOAC 991.14 (Petrifilm) <sup>p</sup>	100	pass	
Total Coliforms	600	cfu/g	100	11/18/22 AOAC 991.14 (Petrifilm) <sup>p</sup>	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	11/17/22 AOAC 2003.07 <sup>p</sup>			
Mold (RAPID Petrifilm)	13,000	cfu/g	1,000	11/19/22 AOAC 2014.05 (RAPID) <sup>p</sup>	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	11/19/22 AOAC 2014.05 (RAPID) <sup>p</sup>	50,000	pass	
Listeria spp.	Negative	/15g	-	11/17/22 AOAC 2019.10 <sup>p1</sup>			I
Salmonella spp. by PCR	Negative	/25g	-	11/17/22 AOAC 2020.02 <sup>p2</sup>	Negative	pass	

1) GENE-UP® Assay

2) GENE-UP® Assay

#### 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

#### Glossary of Qualifiers

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



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

**Sample ID:** LNK-L36-B3

**Sample Matrix:** Kratom powder

**Laboratory ID:** 22-013941-0003-01

**Evidence of Cooling:** No

**Temp:** 18.1 °C

**Relinquished by:** UPS

### Sample Results

#### Mitragynine

#### Mitragynine + 7-Hydroxymitragynine (S3200)

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine	0.0183	%	0.0100	11/18/22	In house method by HPLC-DAD	
Mitragynine	1.44	%	0.0500	11/18/22	In house method by HPLC-DAD	

#### 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.

#### Units of Measure

% = Percentage of sample

Approved Signatory



Derrick Tanner  
General Manager



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

Report Number: 22-013941/D011.R000  
Report Date: 11/21/2022  
Purchase Order: ANDY111122  
Received: 11/14/22 09:38 AM



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

Sample ID: LNK-L36-B4  
Sample Matrix: Kratom powder  
Laboratory ID: 22-013941-0004  
Evidence of Cooling: No  
Temp: 18.1 °C  
Relinquished by: UPS

### Sample Results

#### Microbiology

##### Micro Profile L Rapid (M6000)

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	240,000	cfu/g	10,000	11/18/22 AOAC 990.12 (Petrifilm) <sup>p</sup>	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	11/18/22 AOAC 991.14 (Petrifilm) <sup>p</sup>	100	pass	
Total Coliforms	4,000	cfu/g	100	11/18/22 AOAC 991.14 (Petrifilm) <sup>p</sup>	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	11/17/22 AOAC 2003.07 <sup>p</sup>			
Mold (RAPID Petrifilm)	14,000	cfu/g	1,000	11/19/22 AOAC 2014.05 (RAPID) <sup>p</sup>	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	11/19/22 AOAC 2014.05 (RAPID) <sup>p</sup>	50,000	pass	
Listeria spp.	Negative	/25g	-	11/17/22 AOAC 2019.10 <sup>p1</sup>			
Salmonella spp. by PCR	Negative	/25g	-	11/17/22 AOAC 2020.02 <sup>p2</sup>	Negative	pass	

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

#### 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

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

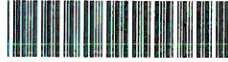
#### Units of Measure

/25g = Per 25g

cfu/g = Colony forming units per gram

Approved Signatory

Derrick Tanner  
General Manager



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

**Sample ID:** LNK-L36-B4  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 22-013941-0004-01  
**Evidence of Cooling:** No  
**Temp:** 18.1 °C  
**Relinquished by:** UPS

### Sample Results

#### Mitragynine

#### Mitragynine + 7-Hydroxymitragynine (S3200)

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine	0.0189	%	0.0100	11/18/22	In house method by HPLC-DAD	
Mitragynine	1.16	%	0.0500	11/18/22	In house method by HPLC-DAD	

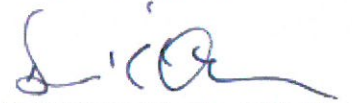
#### Abbreviations

**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.

#### Units of Measure

% = Percentage of sample

Approved Signatory

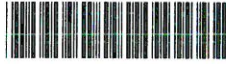


Derrick Tanner  
General Manager



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

Report Number: 22-013941/D015.R000  
 Report Date: 11/21/2022  
 Purchase Order: ANDY111122  
 Received: 11/14/22 09:38 AM



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

Sample ID: LNK-L36-B6  
 Sample Matrix: Kratom powder  
 Laboratory ID: 22-013941-0006  
 Evidence of Cooling: No  
 Temp: 18.1 °C  
 Relinquished by: UPS

### Sample Results

#### Microbiology

##### Micro Profile L Rapid (M6000)

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	230,000	cfu/g	10,000	11/18/22 AOAC 990.12 (Petrifilm) <sup>p</sup>	10,000,000	pass	
E. coli	< LOQ	cfu/g	100	11/18/22 AOAC 991.14 (Petrifilm) <sup>p</sup>	100	pass	
Total Coliforms	1,300	cfu/g	100	11/18/22 AOAC 991.14 (Petrifilm) <sup>p</sup>	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	11/17/22 AOAC 2003.07 <sup>p</sup>			
Mold (RAPID Petrifilm)	18,000	cfu/g	1,000	11/19/22 AOAC 2014.05 (RAPID) <sup>p</sup>	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	11/19/22 AOAC 2014.05 (RAPID) <sup>p</sup>	50,000	pass	
Listeria spp.	Negative	/25g	-	11/17/22 AOAC 2019.10 <sup>p1</sup>			
Salmonella spp. by PCR	Negative	/25g	-	11/17/22 AOAC 2020.02 <sup>p2</sup>	Negative	pass	

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

#### 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

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

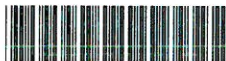
#### Units of Measure

/25g = Per 25g

cfu/g = Colony forming units per gram

Approved Signatory

Derrick Tanner  
 General Manager



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

**Sample ID:** LNK-L36-B6  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 22-013941-0006-01  
**Evidence of Cooling:** No  
**Temp:** 18.1 °C  
**Relinquished by:** UPS

### Sample Results

#### Mitragynine

#### Mitragynine + 7-Hydroxymitragynine (S3200)

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine	0.0160	%	0.0100	11/21/22	In house method by HPLC-DAD	
Mitragynine	1.43	%	0.0500	11/21/22	In house method by HPLC-DAD	

#### 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.

#### Units of Measure

% = Percentage of sample

Approved Signatory

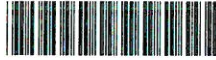


Derrick Tanner  
General Manager



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

**Report Number:** 22-014478/D022.R000  
**Report Date:** 12/06/2022  
**Purchase Order:** andy112322  
**Received:** 11/28/22 10:29 AM



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

**Sample ID:** LNK-L36-B7  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 22-014478-0007  
**Evidence of Cooling:** No  
**Temp:** 13.9 °C  
**Relinquished by:** UPS

### Sample Results

#### Microbiology

##### Micro Profile L Rapid (M6000)

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	82,000	cfu/g	100	12/03/22 AOAC 990.12 (Petrifilm) <sup>P</sup>	10,000,000	pass	SU21
E.coli	< LOQ	cfu/g	100	12/03/22 AOAC 991.14 (Petrifilm) <sup>P</sup>	100	pass	SU21
Total Coliforms	600	cfu/g	100	12/03/22 AOAC 991.14 (Petrifilm) <sup>P</sup>	10,000	pass	SU21
Staphylococcus aureus	< LOQ	cfu/g	100	12/03/22 AOAC 2003.07 <sup>P</sup>			SU21
Mold (RAPID Petrifilm)	18,000	cfu/g	100	12/03/22 AOAC 2014.05 (RAPID) <sup>P</sup>	50,000	pass	SU21
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	12/03/22 AOAC 2014.05 (RAPID) <sup>P</sup>	50,000	pass	SU21
Listeria spp.	Negative	/25g	-	12/02/22 AOAC 2019.10 <sup>P1</sup>			SU21
Salmonella spp. by PCR	Negative	/25g	-	12/05/22 AOAC 2020.02 <sup>P2</sup>	Negative	pass	SU21

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

#### 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

#### Glossary of Qualifiers

SU21: Analysis performed by Tentamus North America, Fredericksburg, Virginia

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



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

**Sample ID:** LNK-L36-B7

**Sample Matrix:** Kratom powder

**Laboratory ID:** 22-013941-0007-01

**Evidence of Cooling:** No

**Temp:** 18.1 °C

**Relinquished by:** UPS

### Sample Results

#### Mitragynine

#### Mitragynine + 7-Hydroxymitragynine (S3200)

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine	0.0165	%	0.0100	11/21/22	In house method by HPLC-DAD	
Mitragynine	1.48	%	0.0500	11/21/22	In house method by HPLC-DAD	

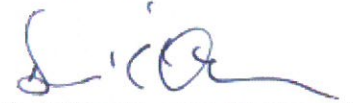
#### Abbreviations

**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.

#### Units of Measure

% = Percentage of sample

Approved Signatory



Derrick Tanner  
General Manager



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

Report Number: 22-013941/D004.R000  
Report Date: 11/21/2022  
Purchase Order: ANDY111122  
Received: 11/14/22 09:38 AM



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

Sample ID: LNK-L36-B9  
Sample Matrix: Kratom powder  
Laboratory ID: 22-013941-0009  
Evidence of Cooling: No  
Temp: 18.1 °C  
Relinquished by: UPS

### Sample Results

#### Microbiology

##### Micro Profile L Rapid (M6000)

Analyte	Result	Units	LOQ	Analyzed	Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	68,000	cfu/g	1,000	11/18/22	AOAC 990.12 (Petrifilm) <sup>p</sup>	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	11/18/22	AOAC 991.14 (Petrifilm) <sup>p</sup>	100	pass	
Total Coliforms	4,400	cfu/g	100	11/18/22	AOAC 991.14 (Petrifilm) <sup>p</sup>	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	11/17/22	AOAC 2003.07 <sup>p</sup>			
Mold (RAPID Petrifilm)	14,000	cfu/g	1,000	11/19/22	AOAC 2014.05 (RAPID) <sup>p</sup>	50,000	pass	
Yeast (RAPID Petrifilm)	100	cfu/g	100	11/19/22	AOAC 2014.05 (RAPID) <sup>p</sup>	50,000	pass	
Listeria spp.	Negative	/15g	-	11/17/22	AOAC 2019.10 <sup>p1</sup>			I
Salmonella spp. by PCR	Negative	/25g	-	11/17/22	AOAC 2020.02 <sup>p2</sup>	Negative	pass	

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

#### 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

#### Glossary of Qualifiers

I: Insufficient sample received to meet method requirements.

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



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

**Report Number:** 22-013941/D017.R000  
**Report Date:** 11/23/2022  
**Purchase Order:** ANDY111122  
**Received:** 11/14/22 09:38 AM



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

**Sample ID:** LNK-L36-B9  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 22-013941-0009-01  
**Evidence of Cooling:** No  
**Temp:** 18.1 °C  
**Relinquished by:** UPS

### Sample Results

#### Mitragynine

#### Mitragynine + 7-Hydroxymitragynine (S3200)

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine	0.0172	%	0.0100	11/21/22	In house method by HPLC-DAD	
Mitragynine	1.40	%	0.0500	11/21/22	In house method by HPLC-DAD	

#### Abbreviations

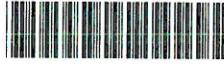
**Limit(s) of Quantitation (LOQ):** The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

#### Units of Measure

% = Percentage of sample

Approved Signatory

Derrick Tanner  
 General Manager



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

**Sample ID:** LNK-L36-B10  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 22-013941-0010  
**Evidence of Cooling:** No  
**Temp:** 18.1 °C  
**Relinquished by:** UPS

### Sample Results

#### Microbiology

##### Micro Profile L Rapid (M6000)

Analyte	Result	Units	LOQ	Analyzed	Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	51,000	cfu/g	1,000	11/18/22	AOAC 990.12 (Petrifilm) <sup>p</sup>	10,000,000	pass	
E. coli	< LOQ	cfu/g	100	11/18/22	AOAC 991.14 (Petrifilm) <sup>p</sup>	100	pass	
Total Coliforms	200	cfu/g	100	11/18/22	AOAC 991.14 (Petrifilm) <sup>p</sup>	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	11/17/22	AOAC 2003.07 <sup>p</sup>			
Mold (RAPID Petrifilm)	8,000	cfu/g	1,000	11/19/22	AOAC 2014.05 (RAPID) <sup>p</sup>	50,000	pass	
Yeast (RAPID Petrifilm)	900	cfu/g	100	11/19/22	AOAC 2014.05 (RAPID) <sup>p</sup>	50,000	pass	
Listeria spp.	Negative	/15g	-	11/17/22	AOAC 2019.10 <sup>p1</sup>			I
Salmonella spp. by PCR	Negative	/25g	-	11/17/22	AOAC 2020.02 <sup>p2</sup>	Negative	pass	

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

#### Abbreviations

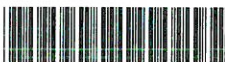
**Limit(s) of Quantitation (LOQ):** The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

**Threshold Note:** limits based on AHPA recommended limits for unprocessed herbs and supplements and ingredients

#### Glossary of Qualifiers

I: Insufficient sample received to meet method requirements.

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



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

**Sample ID:** LNK-L36-B10

**Sample Matrix:** Kratom powder

**Laboratory ID:** 22-013941-0010-01

**Evidence of Cooling:** No

**Temp:** 18.1 °C

**Relinquished by:** UPS

### Sample Results

#### Mitragynine

#### Mitragynine + 7-Hydroxymitragynine (S3200)

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine	0.0184	%	0.0100	11/21/22	In house method by HPLC-DAD	
Mitragynine	1.72	%	0.0500	11/21/22	In house method by HPLC-DAD	


#### 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.

#### Units of Measure

% = Percentage of sample

Approved Signatory



Derrick Tanner  
General Manager



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

**Sample ID:** LNK-L36-B11  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 22-013941-0011  
**Evidence of Cooling:** No  
**Temp:** 18.1 °C  
**Relinquished by:** UPS

### Sample Results

#### Microbiology

##### Micro Profile L Rapid (M6000)

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	45,000	cfu/g	1,000	11/18/22 AOAC 990.12 (Petrifilm) <sup>b</sup>	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	11/18/22 AOAC 991.14 (Petrifilm) <sup>b</sup>	100	pass	
Total Coliforms	1,400	cfu/g	100	11/18/22 AOAC 991.14 (Petrifilm) <sup>b</sup>	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	11/17/22 AOAC 2003.07 <sup>b</sup>			
Mold (RAPID Petrifilm)	7,000	cfu/g	1,000	11/19/22 AOAC 2014.05 (RAPID) <sup>b</sup>	50,000	pass	
Yeast (RAPID Petrifilm)	300	cfu/g	100	11/19/22 AOAC 2014.05 (RAPID) <sup>b</sup>	50,000	pass	
Listeria spp.	Negative	/25g	-	11/17/22 AOAC 2019.10 <sup>b</sup> <sub>1</sub>			
Salmonella spp. by PCR	Negative	/25g	-	11/17/22 AOAC 2020.02 <sup>b</sup> <sub>2</sub>	Negative	pass	

1) GENE-UP® Assay

2) GENE-UP® Assay

#### 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


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

#### Units of Measure

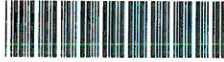
/25g = Per 25g

cfu/g = Colony forming units per gram

Approved Signatory



Derrick Tanner  
General Manager



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

**Sample ID:** LNK-L36-B11  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 22-013941-0011-01  
**Evidence of Cooling:** No  
**Temp:** 18.1 °C  
**Relinquished by:** UPS

### Sample Results

#### Mitragynine

#### Mitragynine + 7-Hydroxymitragynine (S3200)

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine	0.0169	%	0.0100	11/21/22	In house method by HPLC-DAD	
Mitragynine	1.43	%	0.0500	11/21/22	In house method by HPLC-DAD	

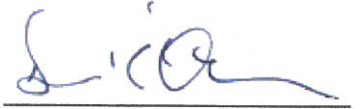
#### Abbreviations

**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.

#### Units of Measure

% = Percentage of sample

Approved Signatory



Derrick Tanner  
General Manager



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

**Sample ID:** LNK-L36-B12  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 22-013941-0012  
**Evidence of Cooling:** No  
**Temp:** 18.1 °C  
**Relinquished by:** UPS

### Sample Results

#### Microbiology

##### Micro Profile L Rapid (M6000)

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	170,000	cfu/g	10,000	11/18/22 AOAC 990.12 (Petrifilm) <sup>b</sup>	10,000,000	pass	
E. coli	< LOQ	cfu/g	100	11/18/22 AOAC 991.14 (Petrifilm) <sup>b</sup>	100	pass	
Total Coliforms	2,500	cfu/g	100	11/18/22 AOAC 991.14 (Petrifilm) <sup>b</sup>	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	11/17/22 AOAC 2003.07 <sup>b</sup>			
Mold (RAPID Petrifilm)	12,000	cfu/g	1,000	11/19/22 AOAC 2014.05 (RAPID) <sup>b</sup>	50,000	pass	
Yeast (RAPID Petrifilm)	700	cfu/g	100	11/19/22 AOAC 2014.05 (RAPID) <sup>b</sup>	50,000	pass	
Listeria spp.	Negative	/25g	-	11/17/22 AOAC 2019.10 <sup>b1</sup>			
Salmonella spp. by PCR	Negative	/25g	-	11/17/22 AOAC 2020.02 <sup>b2</sup>	Negative	pass	

1) GENE-UP® Assay

2) GENE-UP® Assay

#### 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


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

#### Units of Measure

/25g = Per 25g

cfu/g = Colony forming units per gram

Approved Signatory



Derrick Tanner  
General Manager



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

**Sample ID:** LNK-L36-B12  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 22-013941-0012-01  
**Evidence of Cooling:** No  
**Temp:** 18.1 °C  
**Relinquished by:** UPS

### Sample Results

#### Mitragynine

#### Mitragynine + 7-Hydroxymitragynine (S3200)

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine	0.0193	%	0.0100	11/21/22	In house method by HPLC-DAD	
Mitragynine	1.38	%	0.0500	11/21/22	In house method by HPLC-DAD	

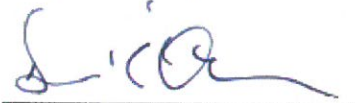
#### Abbreviations

**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.

#### Units of Measure

% = Percentage of sample

Approved Signatory



Derrick Tanner  
General Manager



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

**Report Number:** 22-014478/D005.R000  
**Report Date:** 12/06/2022  
**Purchase Order:** andy112322  
**Received:** 11/28/22 10:29 AM



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

**Sample ID:** LNK-L36-B13  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 22-014478-0013  
**Evidence of Cooling:** No  
**Temp:** 13.9 °C  
**Relinquished by:** UPS

### Sample Results

#### Microbiology

##### Micro Profile L Rapid (M6000)

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	51,000	cfu/g	100	12/03/22 AOAC 990.12 (Petrifilm) <sup>P</sup>	10,000,000	pass	SU21
E.coli	< LOQ	cfu/g	100	12/03/22 AOAC 991.14 (Petrifilm) <sup>P</sup>	100	pass	SU21
Total Coliforms	200	cfu/g	100	12/03/22 AOAC 991.14 (Petrifilm) <sup>P</sup>	10,000	pass	SU21
Staphylococcus aureus	< LOQ	cfu/g	100	12/03/22 AOAC 2003.07 <sup>P</sup>			SU21
Mold (RAPID Petrifilm)	7,000	cfu/g	100	12/03/22 AOAC 2014.05 (RAPID) <sup>P</sup>	50,000	pass	SU21
Yeast (RAPID Petrifilm)	600	cfu/g	100	12/03/22 AOAC 2014.05 (RAPID) <sup>P</sup>	50,000	pass	SU21
Listeria spp.	Negative	/25g	-	12/02/22 AOAC 2019.10 <sup>P1</sup>			SU21
Salmonella spp. by PCR	Negative	/25g	-	12/05/22 AOAC 2020.02 <sup>P2</sup>	Negative	pass	SU21

1) GENE-UP® Assay

2) GENE-UP® Assay

#### Abbreviations

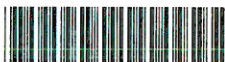
**Limit(s) of Quantitation (LOQ):** The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

**Threshold Note:** limits based on AHPA recommended limits for unprocessed herbs and supplements and ingredients

#### Glossary of Qualifiers

SU21: Analysis performed by Tentamus North America, Fredericksburg, Virginia

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



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

**Sample ID:** LNK-L36-B13  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 22-013941-0013-01  
**Evidence of Cooling:** No  
**Temp:** 18.1 °C  
**Relinquished by:** UPS

### Sample Results

#### Mitragynine

#### Mitragynine + 7-Hydroxymitragynine (S3200)

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine	0.0194	%	0.0100	11/21/22	In house method by HPLC-DAD	
Mitragynine	1.36	%	0.0500	11/21/22	In house method by HPLC-DAD	

#### 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.

#### Units of Measure

% = Percentage of sample

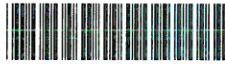
Approved Signatory



Derrick Tanner  
General Manager



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



**Report Number:** 22-013941/D008.R000  
**Report Date:** 11/21/2022  
**Purchase Order:** ANDY111122  
**Received:** 11/14/22 09:38 AM

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

**Sample ID:** LNK-L36-B14  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 22-013941-0014  
**Evidence of Cooling:** No  
**Temp:** 18.1 °C  
**Relinquished by:** UPS

### Sample Results

#### Microbiology

##### Micro Profile L Rapid (M6000)

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	65,000	cfu/g	1,000	11/18/22 AOAC 990.12 (Petrifilm) <sup>p</sup>	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	11/18/22 AOAC 991.14 (Petrifilm) <sup>p</sup>	100	pass	
Total Coliforms	1,800	cfu/g	100	11/18/22 AOAC 991.14 (Petrifilm) <sup>p</sup>	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	11/17/22 AOAC 2003.07 <sup>b</sup>			
Mold (RAPID Petrifilm)	10,000	cfu/g	1,000	11/19/22 AOAC 2014.05 (RAPID) <sup>p</sup>	50,000	pass	
Yeast (RAPID Petrifilm)	600	cfu/g	100	11/19/22 AOAC 2014.05 (RAPID) <sup>p</sup>	50,000	pass	
Listeria spp.	Negative	/25g	-	11/17/22 AOAC 2019.10 <sup>b</sup> <sub>1</sub>			
Salmonella spp. by PCR	Negative	/25g	-	11/17/22 AOAC 2020.02 <sup>b</sup> <sub>2</sub>	Negative	pass	

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

#### 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

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

#### Units of Measure

/25g = Per 25g

cfu/g = Colony forming units per gram

Approved Signatory

Derrick Tanner  
 General Manager



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

**Sample ID:** LNK-L36-B14  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 22-013941-0014-01  
**Evidence of Cooling:** No  
**Temp:** 18.1 °C  
**Relinquished by:** UPS

### Sample Results

#### Mitragynine

#### Mitragynine + 7-Hydroxymitragynine (S3200)

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine	0.0241	%	0.0100	11/21/22	In house method by HPLC-DAD	
Mitragynine	1.04	%	0.0500	11/21/22	In house method by HPLC-DAD	

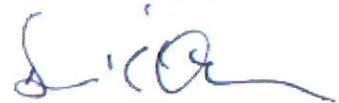
#### Abbreviations

**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.

#### Units of Measure

% = Percentage of sample

Approved Signatory



Derrick Tanner  
General Manager



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

**Report Number:** 22-013941/D002.R000  
**Report Date:** 11/21/2022  
**Purchase Order:** ANDY111122  
**Received:** 11/14/22 09:38 AM



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

**Sample ID:** LNK-L36-B15  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 22-013941-0015  
**Evidence of Cooling:** No  
**Temp:** 18.1 °C  
**Relinquished by:** UPS

**Sample Results**

**Microbiology**

**Micro Profile L Rapid (M6000)**

Analyte	Result	Units	LOQ	Analized Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	51,000	cfu/g	1,000	11/18/22 AOAC 990.12 (Petrifilm) <sup>b</sup>	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	11/18/22 AOAC 991.14 (Petrifilm) <sup>b</sup>	100	pass	
Total Coliforms	3,100	cfu/g	100	11/18/22 AOAC 991.14 (Petrifilm) <sup>b</sup>	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	11/17/22 AOAC 2003.07 <sup>b</sup>			
Mold (RAPID Petrifilm)	8,000	cfu/g	1,000	11/19/22 AOAC 2014.05 (RAPID) <sup>b</sup>	50,000	pass	
Yeast (RAPID Petrifilm)	9,000	cfu/g	1,000	11/19/22 AOAC 2014.05 (RAPID) <sup>b</sup>	50,000	pass	
Listeria spp.	Negative	/25g	-	11/17/22 AOAC 2019.10 <sup>b</sup> <sub>1</sub>			
Salmonella spp. by PCR	Negative	/25g	-	11/17/22 AOAC 2020.02 <sup>b</sup> <sub>2</sub>	Negative	pass	

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

**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

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

**Units of Measure**

/25g = Per 25g  
 cfu/g = Colony forming units per gram

Approved Signatory

Derrick Tanner  
 General Manager

*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:** 22-013941/D022.R000  
**Report Date:** 11/23/2022  
**Purchase Order:** ANDY111122  
**Received:** 11/14/22 09:38 AM



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

**Sample ID:** LNK-L36-B15  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 22-013941-0015-01  
**Evidence of Cooling:** No  
**Temp:** 18.1 °C  
**Relinquished by:** UPS

**Sample Results**

**Mitragynine**

**Mitragynine + 7-Hydroxymitragynine (S3200)**

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine	0.0166	%	0.0100	11/21/22	In house method by HPLC-DAD	
Mitragynine	1.31	%	0.0500	11/21/22	In house method by HPLC-DAD	

**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.

**Units of Measure**

% = Percentage of sample

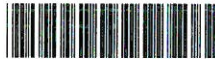
Approved Signatory

Derrick Tanner  
 General Manager



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

**Report Number:** 22-014478/D011.R000  
**Report Date:** 12/06/2022  
**Purchase Order:** andy112322  
**Received:** 11/28/22 10:29 AM



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

**Sample ID:** LNK-L36-B16  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 22-014478-0016  
**Evidence of Cooling:** No  
**Temp:** 13.9 °C  
**Relinquished by:** UPS

### Sample Results

#### Microbiology

##### Micro Profile L Rapid (M6000)

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	1,300	cfu/g	100	12/03/22 AOAC 990.12 (Petrifilm) <sup>P</sup>	10,000,000	pass	SU21
E.coli	< LOQ	cfu/g	100	12/03/22 AOAC 991.14 (Petrifilm) <sup>P</sup>	100	pass	SU21
Total Coliforms	600	cfu/g	100	12/03/22 AOAC 991.14 (Petrifilm) <sup>P</sup>	10,000	pass	SU21
Staphylococcus aureus	< LOQ	cfu/g	100	12/03/22 AOAC 2003.07 <sup>P</sup>			SU21
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	12/03/22 AOAC 2014.05 (RAPID) <sup>P</sup>	50,000	pass	SU21
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	12/03/22 AOAC 2014.05 (RAPID) <sup>P</sup>	50,000	pass	SU21
Listeria spp.	Negative	/25g	-	12/02/22 AOAC 2019.10 <sup>P1</sup>			SU21
Salmonella spp. by PCR	Negative	/25g	-	12/05/22 AOAC 2020.02 <sup>P2</sup>	Negative	pass	SU21

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

#### 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

#### Glossary of Qualifiers

SU21: Analysis performed by Tentamus North America, Fredericksburg, Virginia

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



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

**Report Number:** 22-014478/D009.R000  
**Report Date:** 12/06/2022  
**Purchase Order:** andy112322  
**Received:** 11/28/22 10:29 AM



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

**Sample ID:** LNK-L36-B16  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 22-014478-0016  
**Evidence of Cooling:** No  
**Temp:** 13.9 °C  
**Relinquished by:** UPS

### Sample Results

#### Mitragynine

#### Mitragynine + 7-Hydroxymitragynine (S3200)

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	0.0163	%	0.0100	12/01/22 In house method by HPLC-DAD			
Mitragynine	1.02	%	0.0500	12/01/22 In house method by HPLC-DAD			

#### 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.

#### Units of Measure

% = Percentage of sample

Approved Signatory

Derrick Tanner  
General Manager



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

**Report Number:** 22-014478/D008.R000  
**Report Date:** 12/06/2022  
**Purchase Order:** andy112322  
**Received:** 11/28/22 10:29 AM



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

**Sample ID:** LNK-L36-B17  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 22-014478-0017  
**Evidence of Cooling:** No  
**Temp:** 13.9 °C  
**Relinquished by:** UPS

### Sample Results

#### Microbiology

##### Micro Profile L Rapid (M6000)

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	47,000	cfu/g	100	12/03/22 AOAC 990.12 (Petrifilm) <sup>P</sup>	10,000,000	pass	SU21
E.coli	< LOQ	cfu/g	100	12/03/22 AOAC 991.14 (Petrifilm) <sup>P</sup>	100	pass	SU21
Total Coliforms	400	cfu/g	100	12/03/22 AOAC 991.14 (Petrifilm) <sup>P</sup>	10,000	pass	SU21
Staphylococcus aureus	< LOQ	cfu/g	100	12/03/22 AOAC 2003.07 <sup>P</sup>			SU21
Mold (RAPID Petrifilm)	11,000	cfu/g	100	12/03/22 AOAC 2014.05 (RAPID) <sup>P</sup>	50,000	pass	SU21
Yeast (RAPID Petrifilm)	300	cfu/g	100	12/03/22 AOAC 2014.05 (RAPID) <sup>P</sup>	50,000	pass	SU21
Listeria spp.	Negative	/25g	-	12/02/22 AOAC 2019.10 <sup>P</sup> <sub>1</sub>			SU21
Salmonella spp. by PCR	Negative	/25g	-	12/05/22 AOAC 2020.02 <sup>P</sup> <sub>2</sub>	Negative	pass	SU21

- 1) GENE-UP<sup>®</sup> Assay
- 2) GENE-UP<sup>®</sup> Assay

#### 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

#### Glossary of Qualifiers

SU21: Analysis performed by Tentamus North America, Fredericksburg, Virginia

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



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

**Report Number:** 22-014478/D007.R000  
**Report Date:** 12/06/2022  
**Purchase Order:** andy112322  
**Received:** 11/28/22 10:29 AM



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

**Sample ID:** LNK-L36-B17  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 22-014478-0017  
**Evidence of Cooling:** No  
**Temp:** 13.9 °C  
**Relinquished by:** UPS

### Sample Results

#### Mitragynine

#### Mitragynine + 7-Hydroxymitragynine (S3200)

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	0.0146	%	0.0100	12/01/22 In house method by HPLC-DAD			
Mitragynine	1.29	%	0.0500	12/01/22 In house method by HPLC-DAD			

#### 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.

#### Units of Measure

% = Percentage of sample

Approved Signatory

Derrick Tanner  
General Manager



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

**Report Number:** 22-014478/D010.R000  
**Report Date:** 12/06/2022  
**Purchase Order:** andy112322  
**Received:** 11/28/22 10:29 AM



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

**Sample ID:** LNK-L36-B18  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 22-014478-0018  
**Evidence of Cooling:** No  
**Temp:** 13.9 °C  
**Relinquished by:** UPS

**Sample Results**

**Microbiology**

**Micro Profile L Rapid (M6000)**

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	1,300	cfu/g	100	12/03/22 AOAC 990.12 (Petrifilm) <sup>P</sup>	10,000,000	pass	SU21
E.coli	< LOQ	cfu/g	100	12/03/22 AOAC 991.14 (Petrifilm) <sup>P</sup>	100	pass	SU21
Total Coliforms	< LOQ	cfu/g	100	12/03/22 AOAC 991.14 (Petrifilm) <sup>P</sup>	10,000	pass	SU21
Staphylococcus aureus	< LOQ	cfu/g	100	12/03/22 AOAC 2003.07 <sup>P</sup>			SU21
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	12/03/22 AOAC 2014.05 (RAPID) <sup>P</sup>	50,000	pass	SU21
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	12/03/22 AOAC 2014.05 (RAPID) <sup>P</sup>	50,000	pass	SU21
Listeria spp.	Negative	/25g	-	12/02/22 AOAC 2019.10 <sup>P1</sup>			SU21
Salmonella spp. by PCR	Negative	/25g	-	12/05/22 AOAC 2020.02 <sup>P2</sup>	Negative	pass	SU21

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

**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

**Glossary of Qualifiers**

SU21: Analysis performed by Tentamus North America, Fredericksburg, Virginia

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

*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:** 22-014478/D002.R000  
**Report Date:** 12/06/2022  
**Purchase Order:** andy112322  
**Received:** 11/28/22 10:29 AM



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

**Sample ID:** LNK-L36-B18  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 22-014478-0018  
**Evidence of Cooling:** No  
**Temp:** 13.9 °C  
**Relinquished by:** UPS

### Sample Results

#### Mitragynine

#### Mitragynine + 7-Hydroxymitragynine (S3200)

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	0.0226	%	0.0100	12/01/22 In house method by HPLC-DAD			
Mitragynine	1.00	%	0.0500	12/01/22 In house method by HPLC-DAD			

#### Abbreviations

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#### Units of Measure

% = Percentage of sample

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