



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

Report Number: 23-005958/D036.R000
Report Date: 05/25/2023
Purchase Order: andy51623
Received: 05/17/23 04:14 PM



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

Sample ID: LNK-L42-B1
Sample Matrix: Kratom powder
Laboratory ID: 23-005958-0001
Evidence of Cooling: No
Temp: 24.5 °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	5,400	cfu/g	100	05/21/23 AOAC 990.12 (Petrifilm) ^p	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	05/21/23 AOAC 991.14 (Petrifilm) ^p	100	pass	
Total Coliforms	< LOQ	cfu/g	100	05/21/23 AOAC 991.14 (Petrifilm) ^p	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	05/20/23 AOAC 2003.07 ^p			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	05/21/23 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	05/21/23 AOAC 2014.05 (RAPID) ^p	50000	pass	
Listeria spp.	Negative	/25g	-	05/20/23 AOAC 2019.10 ^{p1}			
Salmonella spp. by PCR	Negative	/25g	-	05/20/23 AOAC 2020.02 ^{p2}	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

^p = 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
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503-254-1794

Report Number: 23-005958/D018.R000
Report Date: 05/25/2023
Purchase Order: andy51623
Received: 05/17/23 04:14 PM



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

Sample ID: LNK-L42-B1

Sample Matrix: Kratom powder

Laboratory ID: 23-005958-0035-00

Evidence of Cooling: No

Temp: 24.5 °C

Relinquished by: UPS

Sample Results

Mitragynine

Mitragynine + 7-Hydroxymitragynine (S3200)

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine	0.0175	%	0.0100	05/24/23	In house method by HPLC-DAD [Ⓟ]	
Mitragynine	1.15	%	0.0500	05/24/23	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.

[Ⓟ] = ISO/IEC 17025:2017 accredited method.

Units of Measure

% = Percentage of sample

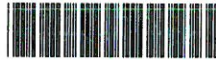
Approved Signatory

Derrick Tanner
General Manager



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

Report Number: 23-005958/D052.R000
Report Date: 05/25/2023
Purchase Order: andy51623
Received: 05/17/23 04:14 PM



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

Sample ID: LNK-L42-B2
Sample Matrix: Kratom powder
Laboratory ID: 23-005958-0002
Evidence of Cooling: No
Temp: 24.5 °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	cfu/g	100	05/21/23 AOAC 990.12 (Petrifilm) ^p	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	05/21/23 AOAC 991.14 (Petrifilm) ^p	100	pass	
Total Coliforms	< LOQ	cfu/g	100	05/21/23 AOAC 991.14 (Petrifilm) ^p	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	05/20/23 AOAC 2003.07 ^p			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	05/21/23 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	05/21/23 AOAC 2014.05 (RAPID) ^p	50000	pass	
Listeria spp.	Negative	/25g	-	05/20/23 AOAC 2019.10 ^{p1}			
Salmonella spp. by PCR	Negative	/25g	-	05/20/23 AOAC 2020.02 ^{p2}	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

^p = 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

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12423 NE Whitaker Way
 Portland, OR 97230
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Report Number: 23-005958/D011.R000
Report Date: 05/25/2023
Purchase Order: andy51623
Received: 05/17/23 04:14 PM



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

Sample ID: LNK-L42-B2

Sample Matrix: Kratom powder

Laboratory ID: 23-005958-0036-00

Evidence of Cooling: No

Temp: 24.5 °C

Relinquished by: UPS

Sample Results

Mitragynine

Mitragynine + 7-Hydroxymitragynine (S3200)

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine	0.0140	%	0.0100	05/24/23	In house method by HPLC-DAD [‡]	
Mitragynine	1.05	%	0.0500	05/24/23	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.

[‡] = ISO/IEC 17025:2017 accredited method.

Units of Measure

% = Percentage of sample

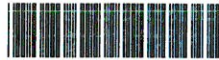
Approved Signatory

Derrick Tanner
 General Manager



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

Report Number: 23-005958/D045.R000
Report Date: 05/25/2023
Purchase Order: andy51623
Received: 05/17/23 04:14 PM



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

Sample ID: LNK-L42-B3
Sample Matrix: Kratom powder
Laboratory ID: 23-005958-0003
Evidence of Cooling: No
Temp: 24.5 °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	700	cfu/g	100	05/21/23 AOAC 990.12 (Petrifilm) ^p	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	05/21/23 AOAC 991.14 (Petrifilm) ^p	100	pass	
Total Coliforms	< LOQ	cfu/g	100	05/21/23 AOAC 991.14 (Petrifilm) ^p	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	05/20/23 AOAC 2003.07 ^p			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	05/21/23 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	05/21/23 AOAC 2014.05 (RAPID) ^p	50000	pass	
Listeria spp.	Negative	/25g	-	05/20/23 AOAC 2019.10 ^{p1}			
Salmonella spp. by PCR	Negative	/25g	-	05/20/23 AOAC 2020.02 ^{p2}	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

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

Units of Measure

/25g = Per 25g

cfu/g = Colony forming units per gram

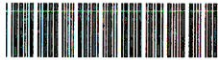
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Derrick Tanner
General Manager



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

Report Number: 23-005958/D013.R000
Report Date: 05/25/2023
Purchase Order: andy51623
Received: 05/17/23 04:14 PM



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

Sample ID: LNK-L42-B3
Sample Matrix: Kratom powder
Laboratory ID: 23-005958-0037-00
Evidence of Cooling: No
Temp: 24.5 °C
Relinquished by: UPS

Sample Results

Mitragynine

Mitragynine + 7-Hydroxymitragynine (S3200)

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine	0.0115	%	0.0100	05/24/23	In house method by HPLC-DAD ^p	
Mitragynine	0.993	%	0.0500	05/24/23	In house method by HPLC-DAD ^p	

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.

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

Units of Measure

% = Percentage of sample

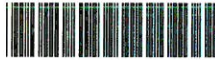
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Derrick Tanner
General Manager



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

Report Number: 23-005958/D047.R000
Report Date: 05/25/2023
Purchase Order: andy51623
Received: 05/17/23 04:14 PM



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

Sample ID: LNK-L42-B4
Sample Matrix: Kratom powder
Laboratory ID: 23-005958-0004
Evidence of Cooling: No
Temp: 24.5 °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	500	cfu/g	100	05/21/23 AOAC 990.12 (Petrifilm) ^P	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	05/21/23 AOAC 991.14 (Petrifilm) ^P	100	pass	
Total Coliforms	< LOQ	cfu/g	100	05/21/23 AOAC 991.14 (Petrifilm) ^P	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	05/20/23 AOAC 2003.07 ^P			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	05/21/23 AOAC 2014.05 (RAPID) ^P	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	05/21/23 AOAC 2014.05 (RAPID) ^P	50000	pass	
Listeria spp.	Negative	/25g	-	05/20/23 AOAC 2019.10 ^{P1}			
Salmonella spp. by PCR	Negative	/25g	-	05/20/23 AOAC 2020.02 ^{P2}	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

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

Units of Measure

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

Approved Signatory

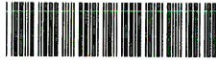
Derrick Tanner
 General Manager

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

Report Number: 23-005958/D014.R000
Report Date: 05/25/2023
Purchase Order: andy51623
Received: 05/17/23 04:14 PM



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

Sample ID: LNK-L42-B4
Sample Matrix: Kratom powder
Laboratory ID: 23-005958-0038-00
Evidence of Cooling: No
Temp: 24.5 °C
Relinquished by: UPS

Sample Results

Mitragynine

Mitragynine + 7-Hydroxymitragynine (S3200)

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine	0.0140	%	0.0100	05/24/23	In house method by HPLC-DAD ^p	
Mitragynine	1.10	%	0.0500	05/24/23	In house method by HPLC-DAD ^p	

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.

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

Units of Measure

% = Percentage of sample

Approved Signatory

Derrick Tanner
General Manager



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

Report Number: 23-005958/D048.R000
Report Date: 05/25/2023
Purchase Order: andy51623
Received: 05/17/23 04:14 PM



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

Sample ID: LNK-L42-B5
Sample Matrix: Kratom powder
Laboratory ID: 23-005958-0005
Evidence of Cooling: No
Temp: 24.5 °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	< LOQ	cfu/g	100	05/21/23 AOAC 990.12 (Petrifilm) ^P	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	05/21/23 AOAC 991.14 (Petrifilm) ^P	100	pass	
Total Coliforms	< LOQ	cfu/g	100	05/21/23 AOAC 991.14 (Petrifilm) ^P	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	05/20/23 AOAC 2003.07 ^P			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	05/21/23 AOAC 2014.05 (RAPID) ^P	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	05/21/23 AOAC 2014.05 (RAPID) ^P	50000	pass	
Listeria spp.	Negative	/25g	-	05/20/23 AOAC 2019.10 ^{P1}			
Salmonella spp. by PCR	Negative	/25g	-	05/20/23 AOAC 2020.02 ^{P2}	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

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

Units of Measure

/25g = Per 25g

cfu/g = Colony forming units per gram

Approved Signatory

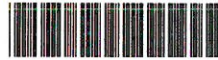
Derrick Tanner
 General Manager

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

Report Number: 23-005958/D012.R000
Report Date: 05/25/2023
Purchase Order: andy51623
Received: 05/17/23 04:14 PM



Customer: Lamp Nutra
3133 Tigar Run Ct Ste 104
Carlsbad California 92010
United States of America (USA)
Sample ID: LNK-L42-B5
Sample Matrix: Kratom powder
Laboratory ID: 23-005958-0039-00
Evidence of Cooling: No
Temp: 24.5 °C
Relinquished by: UPS

Sample Results

Mitragynine

Mitragynine + 7-Hydroxymitragynine (S3200)

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine	0.0145	%	0.0100	05/24/23	In house method by HPLC-DAD [‡]	
Mitragynine	1.23	%	0.0500	05/24/23	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.

[‡] = ISO/IEC 17025:2017 accredited method.

Units of Measure

% = Percentage of sample

Approved Signatory

Derrick Tanner
General Manager



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

Report Number: 23-005958/D046.R000
Report Date: 05/25/2023
Purchase Order: andy51623
Received: 05/17/23 04:14 PM



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

Sample ID: LNK-L42-B6
Sample Matrix: Kratom powder
Laboratory ID: 23-005958-0006
Evidence of Cooling: No
Temp: 24.5 °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	800	cfu/g	100	05/21/23 AOAC 990.12 (Petrifilm) ^p	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	05/21/23 AOAC 991.14 (Petrifilm) ^p	100	pass	
Total Coliforms	< LOQ	cfu/g	100	05/21/23 AOAC 991.14 (Petrifilm) ^p	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	05/20/23 AOAC 2003.07 ^p			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	05/21/23 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	05/21/23 AOAC 2014.05 (RAPID) ^p	50000	pass	
Listeria spp.	Negative	/25g	-	05/20/23 AOAC 2019.10 ^{p1}			
Salmonella spp. by PCR	Negative	/25g	-	05/20/23 AOAC 2020.02 ^{p2}	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

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

Units of Measure

/25g = Per 25g

cfu/g = Colony forming units per gram

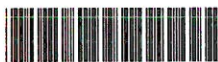
Approved Signatory

Derrick Tanner
 General Manager



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

Report Number: 23-005958/D017.R000
Report Date: 05/25/2023
Purchase Order: andy51623
Received: 05/17/23 04:14 PM



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

Sample ID: LNK-L42-B6
Sample Matrix: Kratom powder
Laboratory ID: 23-005958-0040-00
Evidence of Cooling: No
Temp: 24.5 °C
Relinquished by: UPS

Sample Results

Mitragynine

Mitragynine + 7-Hydroxymitragynine (S3200)

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine	0.0110	%	0.0100	05/24/23	In house method by HPLC-DAD ^p	
Mitragynine	1.03	%	0.0500	05/24/23	In house method by HPLC-DAD ^p	

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.

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

Units of Measure

% = Percentage of sample

Approved Signatory

Derrick Tanner
 General Manager



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

Report Number: 23-005958/D051.R000
Report Date: 05/25/2023
Purchase Order: andy51623
Received: 05/17/23 04:14 PM



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

Sample ID: LNK-L42-B7
Sample Matrix: Kratom powder
Laboratory ID: 23-005958-0007
Evidence of Cooling: No
Temp: 24.5 °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	400	cfu/g	100	05/21/23 AOAC 990.12 (Petrifilm) ^P	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	05/21/23 AOAC 991.14 (Petrifilm) ^P	100	pass	
Total Coliforms	< LOQ	cfu/g	100	05/21/23 AOAC 991.14 (Petrifilm) ^P	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	05/20/23 AOAC 2003.07 ^P			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	05/21/23 AOAC 2014.05 (RAPID) ^P	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	05/21/23 AOAC 2014.05 (RAPID) ^P	50000	pass	
Listeria spp.	Negative	/25g	-	05/20/23 AOAC 2019.10 ^{P1}			
Salmonella spp. by PCR	Negative	/25g	-	05/20/23 AOAC 2020.02 ^{P2}	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

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

Units of Measure

/25g = Per 25g

cfu/g = Colony forming units per gram

Approved Signatory

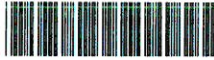
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 General Manager

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503-254-1794

Report Number: 23-005958/D016.R000
Report Date: 05/25/2023
Purchase Order: andy51623
Received: 05/17/23 04:14 PM



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

Sample ID: LNK-L42-B7

Sample Matrix: Kratom powder

Laboratory ID: 23-005958-0041-00

Evidence of Cooling: No

Temp: 24.5 °C

Relinquished by: UPS

Sample Results

Mitragynine

Mitragynine + 7-Hydroxymitragynine (S3200)

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine	0.0154	%	0.0100	05/24/23	In house method by HPLC-DAD [‡]	
Mitragynine	1.04	%	0.0500	05/24/23	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.

[‡] = ISO/IEC 17025:2017 accredited method.

Units of Measure

% = Percentage of sample

Approved Signatory

Derrick Tanner
General Manager



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

Report Number: 23-005958/D050.R000
Report Date: 05/25/2023
Purchase Order: andy51623
Received: 05/17/23 04:14 PM



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

Sample ID: LNK-L42-B8
Sample Matrix: Kratom powder
Laboratory ID: 23-005958-0008
Evidence of Cooling: No
Temp: 24.5 °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	600	cfu/g	100	05/21/23 AOAC 990.12 (Petrifilm) ^P	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	05/21/23 AOAC 991.14 (Petrifilm) ^P	100	pass	
Total Coliforms	< LOQ	cfu/g	100	05/21/23 AOAC 991.14 (Petrifilm) ^P	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	05/20/23 AOAC 2003.07 ^P			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	05/21/23 AOAC 2014.05 (RAPID) ^P	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	05/21/23 AOAC 2014.05 (RAPID) ^P	50000	pass	
Listeria spp.	Negative	/25g	-	05/20/23 AOAC 2019.10 ^{P1}			
Salmonella spp. by PCR	Negative	/25g	-	05/20/23 AOAC 2020.02 ^{P2}	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

^P = 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: 23-005958/D015.R000
Report Date: 05/25/2023
Purchase Order: andy51623
Received: 05/17/23 04:14 PM



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

Sample ID: LNK-L42-B8

Sample Matrix: Kratom powder

Laboratory ID: 23-005958-0042-00

Evidence of Cooling: No

Temp: 24.5 °C

Relinquished by: UPS

Sample Results

Mitragynine

Mitragynine + 7-Hydroxymitragynine (S3200)

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine	0.0173	%	0.0100	05/24/23	In house method by HPLC-DAD ^p	
Mitragynine	1.10	%	0.0500	05/24/23	In house method by HPLC-DAD ^p	

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.

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

Units of Measure

% = Percentage of sample

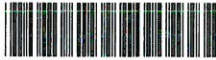
Approved Signatory

Derrick Tanner
General Manager



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

Report Number: 23-005958/D049.R000
Report Date: 05/25/2023
Purchase Order: andy51623
Received: 05/17/23 04:14 PM



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

Sample ID: LNK-L42-B9
Sample Matrix: Kratom powder
Laboratory ID: 23-005958-0009
Evidence of Cooling: No
Temp: 24.5 °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	300	cfu/g	100	05/21/23 AOAC 990.12 (Petrifilm) ^p	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	05/21/23 AOAC 991.14 (Petrifilm) ^p	100	pass	
Total Coliforms	< LOQ	cfu/g	100	05/21/23 AOAC 991.14 (Petrifilm) ^p	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	05/20/23 AOAC 2003.07 ^p			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	05/21/23 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	05/21/23 AOAC 2014.05 (RAPID) ^p	50000	pass	
Listeria spp.	Negative	/25g	-	05/20/23 AOAC 2019.10 ^{p1}			
Salmonella spp. by PCR	Negative	/25g	-	05/20/23 AOAC 2020.02 ^{p2}	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

^p = 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: 23-005958/D010.R000
Report Date: 05/25/2023
Purchase Order: andy51623
Received: 05/17/23 04:14 PM



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

Sample ID: LNK-L42-B9

Sample Matrix: Kratom powder

Laboratory ID: 23-005958-0043-00

Evidence of Cooling: No

Temp: 24.5 °C

Relinquished by: UPS

Sample Results

Mitragynine

Mitragynine + 7-Hydroxymitragynine (S3200)

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine	0.0226	%	0.0100	05/24/23	In house method by HPLC-DAD [‡]	
Mitragynine	1.07	%	0.0500	05/24/23	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.

[‡] = ISO/IEC 17025:2017 accredited method.

Units of Measure

% = Percentage of sample

Approved Signatory

Derrick Tanner
General Manager



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

Report Number: 23-005958/D044.R000
Report Date: 05/25/2023
Purchase Order: andy51623
Received: 05/17/23 04:14 PM



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

Sample ID: LNK-L42-B10
Sample Matrix: Kratom powder
Laboratory ID: 23-005958-0010
Evidence of Cooling: No
Temp: 24.5 °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	< LOQ	cfu/g	100	05/21/23 AOAC 990.12 (Petrifilm) ^p	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	05/21/23 AOAC 991.14 (Petrifilm) ^p	100	pass	
Total Coliforms	< LOQ	cfu/g	100	05/21/23 AOAC 991.14 (Petrifilm) ^p	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	05/20/23 AOAC 2003.07 ^p			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	05/21/23 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	05/21/23 AOAC 2014.05 (RAPID) ^p	50000	pass	
Listeria spp.	Negative	/25g	-	05/20/23 AOAC 2019.10 ^{p1}			
Salmonella spp. by PCR	Negative	/25g	-	05/20/23 AOAC 2020.02 ^{p2}	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

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

Units of Measure

/25g = Per 25g

cfu/g = Colony forming units per gram

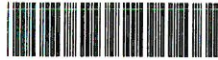
Approved Signatory

Derrick Tanner
 General Manager



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

Report Number: 23-005958/D004.R000
Report Date: 05/25/2023
Purchase Order: andy51623
Received: 05/17/23 04:14 PM



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

Sample ID: LNK-L42-B10
Sample Matrix: Kratom powder
Laboratory ID: 23-005958-0044-00
Evidence of Cooling: No
Temp: 24.5 °C
Relinquished by: UPS

Sample Results

Mitragynine

Mitragynine + 7-Hydroxymitragynine (S3200)

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine	0.0251	%	0.0100	05/24/23	In house method by HPLC-DAD [Ⓟ]	
Mitragynine	1.10	%	0.0500	05/24/23	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.

[Ⓟ] = ISO/IEC 17025:2017 accredited method.

Units of Measure

% = Percentage of sample

Approved Signatory

Derrick Tanner
General Manager



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

Report Number: 23-005958/D038.R000
Report Date: 05/25/2023
Purchase Order: andy51623
Received: 05/17/23 04:14 PM



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

Sample ID: LNK-L42-B11
Sample Matrix: Kratom powder
Laboratory ID: 23-005958-0011
Evidence of Cooling: No
Temp: 24.5 °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	1,500	cfu/g	100	05/21/23 AOAC 990.12 (Petrifilm) ^p	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	05/21/23 AOAC 991.14 (Petrifilm) ^p	100	pass	
Total Coliforms	< LOQ	cfu/g	100	05/21/23 AOAC 991.14 (Petrifilm) ^p	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	05/20/23 AOAC 2003.07 ^p			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	05/21/23 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	05/21/23 AOAC 2014.05 (RAPID) ^p	50000	pass	
Listeria spp.	Negative	/25g	-	05/20/23 AOAC 2019.10 ^{p1}			
Salmonella spp. by PCR	Negative	/25g	-	05/20/23 AOAC 2020.02 ^{p2}	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

^p = 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



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

Report Number: 23-005958/D005.R000
Report Date: 05/25/2023
Purchase Order: andy51623
Received: 05/17/23 04:14 PM



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

Sample ID: LNK-L42-B11

Sample Matrix: Kratom powder

Laboratory ID: 23-005958-0045-00

Evidence of Cooling: No

Temp: 24.5 °C

Relinquished by: UPS

Sample Results

Mitragynine

Mitragynine + 7-Hydroxymitragynine (S3200)

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine	0.0176	%	0.0100	05/24/23	In house method by HPLC-DAD ^p	
Mitragynine	1.04	%	0.0500	05/24/23	In house method by HPLC-DAD ^p	

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.

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

Units of Measure

% = Percentage of sample

Approved Signatory

Derrick Tanner
General Manager



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

Report Number: 23-005958/D039.R000
Report Date: 05/25/2023
Purchase Order: andy51623
Received: 05/17/23 04:14 PM



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

Sample ID: LNK-L42-B12
Sample Matrix: Kratom powder
Laboratory ID: 23-005958-0012
Evidence of Cooling: No
Temp: 24.5 °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	2,600	cfu/g	100	05/21/23 AOAC 990.12 (Petrifilm) ^P	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	05/21/23 AOAC 991.14 (Petrifilm) ^P	100	pass	
Total Coliforms	< LOQ	cfu/g	100	05/21/23 AOAC 991.14 (Petrifilm) ^P	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	05/20/23 AOAC 2003.07 ^P			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	05/21/23 AOAC 2014.05 (RAPID) ^P	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	05/21/23 AOAC 2014.05 (RAPID) ^P	50000	pass	
Listeria spp.	Negative	/25g	-	05/20/23 AOAC 2019.10 ^P ₁			
Salmonella spp. by PCR	Negative	/25g	-	05/20/23 AOAC 2020.02 ^P ₂	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

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

Units of Measure

/25g = Per 25g

cfu/g = Colony forming units per gram

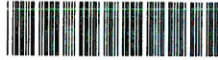
Approved Signatory

Derrick Tanner
General Manager



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

Report Number: 23-005958/D003.R000
Report Date: 05/25/2023
Purchase Order: andy51623
Received: 05/17/23 04:14 PM



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

Sample ID: LNK-L42-B12

Sample Matrix: Kratom powder

Laboratory ID: 23-005958-0046-00

Evidence of Cooling: No

Temp: 24.5 °C

Relinquished by: UPS

Sample Results

Mitragynine

Mitragynine + 7-Hydroxymitragynine (S3200)

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine	0.0186	%	0.0100	05/24/23	In house method by HPLC-DAD ^p	
Mitragynine	1.06	%	0.0500	05/24/23	In house method by HPLC-DAD ^p	

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.

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

Units of Measure

% = Percentage of sample

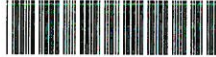
Approved Signatory

Derrick Tanner
General Manager



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

Report Number: 23-005958/D037.R000
Report Date: 05/25/2023
Purchase Order: andy51623
Received: 05/17/23 04:14 PM



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

Sample ID: LNK-L42-B13
Sample Matrix: Kratom powder
Laboratory ID: 23-005958-0013
Evidence of Cooling: No
Temp: 24.5 °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	700	cfu/g	100	05/22/23 AOAC 990.12 (Petrifilm) ^p	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	05/22/23 AOAC 991.14 (Petrifilm) ^p	100	pass	
Total Coliforms	< LOQ	cfu/g	100	05/22/23 AOAC 991.14 (Petrifilm) ^p	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	05/21/23 AOAC 2003.07 ^p			I
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	05/22/23 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	05/22/23 AOAC 2014.05 (RAPID) ^p	50000	pass	
Listeria spp.	Negative	/g	-	05/21/23 AOAC 2019.10 ^{p1}			I
Salmonella spp. by PCR	Negative	/25g	-	05/21/23 AOAC 2020.02 ^{p2}	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.

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



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

Report Number: 23-005958/D008.R000
Report Date: 05/25/2023
Purchase Order: andy51623
Received: 05/17/23 04:14 PM



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

Sample ID: LNK-L42-B13

Sample Matrix: Kratom powder

Laboratory ID: 23-005958-0047-00

Evidence of Cooling: No

Temp: 24.5 °C

Relinquished by: UPS

Sample Results

Mitragynine

Mitragynine + 7-Hydroxymitragynine (S3200)

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine	0.0148	%	0.0100	05/24/23	In house method by HPLC-DAD [‡]	
Mitragynine	1.03	%	0.0500	05/24/23	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.

[‡] = ISO/IEC 17025:2017 accredited method.

Units of Measure

% = Percentage of sample

Approved Signatory

Derrick Tanner
 General Manager



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

Report Number: 23-005958/D042.R000
Report Date: 05/25/2023
Purchase Order: andy51623
Received: 05/17/23 04:14 PM



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

Sample ID: LNK-L42-B14
Sample Matrix: Kratom powder
Laboratory ID: 23-005958-0014
Evidence of Cooling: No
Temp: 24.5 °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	700	cfu/g	100	05/22/23 AOAC 990.12 (Petrifilm) ^P	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	05/22/23 AOAC 991.14 (Petrifilm) ^P	100	pass	
Total Coliforms	< LOQ	cfu/g	100	05/22/23 AOAC 991.14 (Petrifilm) ^P	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	05/21/23 AOAC 2003.07 ^P			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	05/22/23 AOAC 2014.05 (RAPID) ^P	50,000	pass	
Yeast (RAPID Petrifilm)	100	cfu/g	100	05/22/23 AOAC 2014.05 (RAPID) ^P	50000	pass	
Listeria spp.	Negative	/15g	-	05/21/23 AOAC 2019.10 ^{P1}			I
Salmonella spp. by PCR	Negative	/g	-	05/21/23 AOAC 2020.02 ^{P2}	Negative	pass	I

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

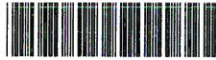
I: Insufficient sample received to meet method requirements.

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



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

Report Number: 23-005958/D007.R000
Report Date: 05/25/2023
Purchase Order: andy51623
Received: 05/17/23 04:14 PM



Customer: Lamp Nutra
3133 Tigar Run Ct Ste 104
Carlsbad California 92010
United States of America (USA)
Sample ID: LNK-L42-B14
Sample Matrix: Kratom powder
Laboratory ID: 23-005958-0048-00
Evidence of Cooling: No
Temp: 24.5 °C
Relinquished by: UPS

Sample Results

Mitragynine

Mitragynine + 7-Hydroxymitragynine (S3200)

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine	0.0153	%	0.0100	05/24/23	In house method by HPLC-DAD ^p	
Mitragynine	1.10	%	0.0500	05/24/23	In house method by HPLC-DAD ^p	

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.

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

Units of Measure

% = Percentage of sample

Approved Signatory

Derrick Tanner
General Manager



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

Report Number: 23-005958/D041.R000
Report Date: 05/25/2023
Purchase Order: andy51623
Received: 05/17/23 04:14 PM



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

Sample ID: LNK-L42-B15
Sample Matrix: Kratom powder
Laboratory ID: 23-005958-0015
Evidence of Cooling: No
Temp: 24.5 °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	1,200	cfu/g	100	05/22/23 AOAC 990.12 (Petrifilm) ^P	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	05/22/23 AOAC 991.14 (Petrifilm) ^P	100	pass	
Total Coliforms	< LOQ	cfu/g	100	05/22/23 AOAC 991.14 (Petrifilm) ^P	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	05/21/23 AOAC 2003.07 ^P			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	05/22/23 AOAC 2014.05 (RAPID) ^P	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	05/22/23 AOAC 2014.05 (RAPID) ^P	50000	pass	
Listeria spp.	Negative	/5g	-	05/21/23 AOAC 2019.10 ^P ₁			I
Salmonella spp. by PCR	Negative	/5g	-	05/21/23 AOAC 2020.02 ^P ₂	Negative	pass	I

- 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.

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



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

Report Number: 23-005958/D006.R000
Report Date: 05/25/2023
Purchase Order: andy51623
Received: 05/17/23 04:14 PM



Customer: Lamp Nutra
3133 Tigar Run Ct Ste 104
Carlsbad California 92010
United States of America (USA)
Sample ID: LNK-L42-B15
Sample Matrix: Kratom powder
Laboratory ID: 23-005958-0049-00
Evidence of Cooling: No
Temp: 24.5 °C
Relinquished by: UPS

Sample Results

Mitragynine

Mitragynine + 7-Hydroxymitragynine (S3200)

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine	0.0171	%	0.0100	05/24/23	In house method by HPLC-DAD [‡]	
Mitragynine	1.02	%	0.0500	05/24/23	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.

[‡] = ISO/IEC 17025:2017 accredited method.

Units of Measure

% = Percentage of sample

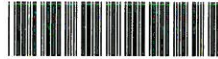
Approved Signatory

Derrick Tanner
General Manager



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

Report Number: 23-005958/D040.R000
Report Date: 05/25/2023
Purchase Order: andy51623
Received: 05/17/23 04:14 PM



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

Sample ID: LNK-L42-B16
Sample Matrix: Kratom powder
Laboratory ID: 23-005958-0016
Evidence of Cooling: No
Temp: 24.5 °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	1,400	cfu/g	100	05/22/23 AOAC 990.12 (Petrifilm) ^p	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	05/22/23 AOAC 991.14 (Petrifilm) ^p	100	pass	
Total Coliforms	< LOQ	cfu/g	100	05/22/23 AOAC 991.14 (Petrifilm) ^p	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	05/21/23 AOAC 2003.07 ^p			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	05/22/23 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	05/22/23 AOAC 2014.05 (RAPID) ^p	50000	pass	
Listeria spp.	Negative	/5g	-	05/21/23 AOAC 2019.10 ^p ₁			I
Salmonella spp. by PCR	Negative	/5g	-	05/21/23 AOAC 2020.02 ^p ₂	Negative	pass	I

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

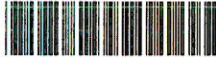
I: Insufficient sample received to meet method requirements.

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



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

Report Number: 23-005958/D009.R000
Report Date: 05/25/2023
Purchase Order: andy51623
Received: 05/17/23 04:14 PM



Customer: Lamp Nutra
3133 Tigar Run Ct Ste 104
Carlsbad California 92010
United States of America (USA)
Sample ID: LNK-L42-B16
Sample Matrix: Kratom powder
Laboratory ID: 23-005958-0050-00
Evidence of Cooling: No
Temp: 24.5 °C
Relinquished by: UPS

Sample Results

Mitragynine

Mitragynine + 7-Hydroxymitragynine (S3200)

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine	0.0164	%	0.0100	05/24/23	In house method by HPLC-DAD [‡]	
Mitragynine	0.963	%	0.0500	05/24/23	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.

[‡] = ISO/IEC 17025:2017 accredited method.

Units of Measure

% = Percentage of sample

Approved Signatory

Derrick Tanner
General Manager



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

Report Number: 23-005958/D043.R000
Report Date: 05/25/2023
Purchase Order: andy51623
Received: 05/17/23 04:14 PM



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

Sample ID: LNK-L42-B17
Sample Matrix: Kratom powder
Laboratory ID: 23-005958-0017
Evidence of Cooling: No
Temp: 24.5 °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	900	cfu/g	100	05/22/23 AOAC 990.12 (Petrifilm) ^P	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	05/22/23 AOAC 991.14 (Petrifilm) ^P	100	pass	
Total Coliforms	< LOQ	cfu/g	100	05/22/23 AOAC 991.14 (Petrifilm) ^P	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	05/21/23 AOAC 2003.07 ^P			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	05/22/23 AOAC 2014.05 (RAPID) ^P	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	05/22/23 AOAC 2014.05 (RAPID) ^P	50000	pass	
Listeria spp.	Negative	/5g	-	05/21/23 AOAC 2019.10 ^P ₁			I
Salmonella spp. by PCR	Negative	/5g	-	05/21/23 AOAC 2020.02 ^P ₂	Negative	pass	I

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.

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



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

Report Number: 23-005958/D035.R000
Report Date: 05/25/2023
Purchase Order: andy51623
Received: 05/17/23 04:14 PM



Customer: Lamp Nutra
3133 Tigar Run Ct Ste 104
Carlsbad California 92010
United States of America (USA)
Sample ID: LNK-L42-B17
Sample Matrix: Kratom powder
Laboratory ID: 23-005958-0051-00
Evidence of Cooling: No
Temp: 24.5 °C
Relinquished by: UPS

Sample Results

Mitragynine

Mitragynine + 7-Hydroxymitragynine (S3200)

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine	0.0176	%	0.0100	05/24/23	In house method by HPLC-DAD [‡]	
Mitragynine	1.03	%	0.0500	05/24/23	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.

[‡] = ISO/IEC 17025:2017 accredited method.

Units of Measure

% = Percentage of sample

Approved Signatory

Derrick Tanner
General Manager



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

Report Number: 23-005958/D069.R000
Report Date: 05/25/2023
Purchase Order: andy51623
Received: 05/17/23 04:14 PM



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

Sample ID: LNK-L42-B18
Sample Matrix: Kratom powder
Laboratory ID: 23-005958-0018
Evidence of Cooling: No
Temp: 24.5 °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	1,700	cfu/g	100	05/22/23 AOAC 990.12 (Petrifilm) ^P	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	05/22/23 AOAC 991.14 (Petrifilm) ^P	100	pass	
Total Coliforms	< LOQ	cfu/g	100	05/22/23 AOAC 991.14 (Petrifilm) ^P	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	05/21/23 AOAC 2003.07 ^P			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	05/22/23 AOAC 2014.05 (RAPID) ^P	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	05/22/23 AOAC 2014.05 (RAPID) ^P	50000	pass	
Listeria spp.	Negative	/15g	-	05/21/23 AOAC 2019.10 ^P ₁			I
Salmonella spp. by PCR	Negative	/5g	-	05/21/23 AOAC 2020.02 ^P ₂	Negative	pass	I

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.

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



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

Report Number: 23-005958/D030.R000
Report Date: 05/25/2023
Purchase Order: andy51623
Received: 05/17/23 04:14 PM



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

Sample ID: LNK-L42-B18

Sample Matrix: Kratom powder

Laboratory ID: 23-005958-0052-00

Evidence of Cooling: No

Temp: 24.5 °C

Relinquished by: UPS

Sample Results

Mitragynine

Mitragynine + 7-Hydroxymitragynine (S3200)

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine	0.0198	%	0.0100	05/24/23	In house method by HPLC-DAD ^p	
Mitragynine	1.08	%	0.0500	05/24/23	In house method by HPLC-DAD ^p	

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.

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

Units of Measure

% = Percentage of sample

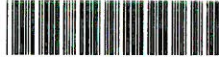
Approved Signatory

Derrick Tanner
 General Manager



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

Report Number: 23-005958/D064.R000
Report Date: 05/25/2023
Purchase Order: andy51623
Received: 05/17/23 04:14 PM



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

Sample ID: LNK-L42-B19
Sample Matrix: Kratom powder
Laboratory ID: 23-005958-0019
Evidence of Cooling: No
Temp: 24.5 °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	900	cfu/g	100	05/22/23 AOAC 990.12 (Petrifilm) ^p	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	05/22/23 AOAC 991.14 (Petrifilm) ^p	100	pass	
Total Coliforms	< LOQ	cfu/g	100	05/22/23 AOAC 991.14 (Petrifilm) ^p	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	05/21/23 AOAC 2003.07 ^p			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	05/22/23 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	05/22/23 AOAC 2014.05 (RAPID) ^p	50000	pass	
Listeria spp.	Negative	/10g	-	05/21/23 AOAC 2019.10 ^p ₁			I
Salmonella spp. by PCR	Negative	/5g	-	05/21/23 AOAC 2020.02 ^p ₂	Negative	pass	I

- 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.

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



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

Report Number: 23-005958/D031.R000
Report Date: 05/25/2023
Purchase Order: andy51623
Received: 05/17/23 04:14 PM



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

Sample ID: LNK-L42-B19

Sample Matrix: Kratom powder

Laboratory ID: 23-005958-0053-00

Evidence of Cooling: No

Temp: 24.5 °C

Relinquished by: UPS

Sample Results

Mitragynine

Mitragynine + 7-Hydroxymitragynine (S3200)

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine	0.0174	%	0.0100	05/24/23	In house method by HPLC-DAD ^p	
Mitragynine	1.13	%	0.0500	05/24/23	In house method by HPLC-DAD ^p	

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.

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

Units of Measure

% = Percentage of sample

Approved Signatory

Derrick Tanner
 General Manager



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

Report Number: 23-005958/D065.R000
Report Date: 05/25/2023
Purchase Order: andy51623
Received: 05/17/23 04:14 PM



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

Sample ID: LNK-L42-B20
Sample Matrix: Kratom powder
Laboratory ID: 23-005958-0020
Evidence of Cooling: No
Temp: 24.5 °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	cfu/g	100	05/22/23 AOAC 990.12 (Petrifilm) ^p	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	05/22/23 AOAC 991.14 (Petrifilm) ^p	100	pass	
Total Coliforms	< LOQ	cfu/g	100	05/22/23 AOAC 991.14 (Petrifilm) ^p	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	05/21/23 AOAC 2003.07 ^p			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	05/22/23 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	05/22/23 AOAC 2014.05 (RAPID) ^p	50000	pass	
Listeria spp.	Negative	/5g	-	05/21/23 AOAC 2019.10 ^{p1}			I
Salmonella spp. by PCR	Negative	/10g	-	05/21/23 AOAC 2020.02 ^{p2}	Negative	pass	I

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

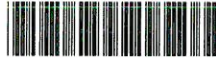
I: Insufficient sample received to meet method requirements.

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



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

Report Number: 23-005958/D029.R000
Report Date: 05/25/2023
Purchase Order: andy51623
Received: 05/17/23 04:14 PM



Customer: Lamp Nutra
3133 Tigar Run Ct Ste 104
Carlsbad California 92010
United States of America (USA)
Sample ID: LNK-L42-B20
Sample Matrix: Kratom powder
Laboratory ID: 23-005958-0054-00
Evidence of Cooling: No
Temp: 24.5 °C
Relinquished by: UPS

Sample Results

Mitragynine

Mitragynine + 7-Hydroxymitragynine (S3200)

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine	0.0183	%	0.0100	05/24/23	In house method by HPLC-DAD ^p	
Mitragynine	1.08	%	0.0500	05/24/23	In house method by HPLC-DAD ^p	

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.

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

Units of Measure

% = Percentage of sample

Approved Signatory

Derrick Tanner
General Manager



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

Report Number: 23-005958/D063.R000
Report Date: 05/25/2023
Purchase Order: andy51623
Received: 05/17/23 04:14 PM



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

Sample ID: LNK-L42-B21
Sample Matrix: Kratom powder
Laboratory ID: 23-005958-0021
Evidence of Cooling: No
Temp: 24.5 °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	cfu/g	100	05/22/23 AOAC 990.12 (Petrifilm) ^P	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	05/22/23 AOAC 991.14 (Petrifilm) ^P	100	pass	
Total Coliforms	< LOQ	cfu/g	100	05/22/23 AOAC 991.14 (Petrifilm) ^P	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	05/21/23 AOAC 2003.07 ^P			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	05/22/23 AOAC 2014.05 (RAPID) ^P	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	05/22/23 AOAC 2014.05 (RAPID) ^P	50000	pass	
Listeria spp.	Negative	/15g	-	05/21/23 AOAC 2019.10 ^P ₁			I
Salmonella spp. by PCR	Negative	/5g	-	05/21/23 AOAC 2020.02 ^P ₂	Negative	pass	I

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.

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



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

Report Number: 23-005958/D034.R000
Report Date: 05/25/2023
Purchase Order: andy51623
Received: 05/17/23 04:14 PM



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

Sample ID: LNK-L42-B21

Sample Matrix: Kratom powder

Laboratory ID: 23-005958-0055-00

Evidence of Cooling: No

Temp: 24.5 °C

Relinquished by: UPS

Sample Results

Mitragynine

Mitragynine + 7-Hydroxymitragynine (S3200)

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine	0.0112	%	0.0100	05/25/23	In house method by HPLC-DAD ^p	
Mitragynine	0.956	%	0.0500	05/25/23	In house method by HPLC-DAD ^p	

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.

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

Units of Measure

% = Percentage of sample

Approved Signatory

Derrick Tanner
General Manager



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

Report Number: 23-005958/D068.R000
Report Date: 05/25/2023
Purchase Order: andy51623
Received: 05/17/23 04:14 PM



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

Sample ID: LNK-L42-B22
Sample Matrix: Kratom powder
Laboratory ID: 23-005958-0022
Evidence of Cooling: No
Temp: 24.5 °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	05/22/23 AOAC 990.12 (Petrifilm) ^P	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	05/22/23 AOAC 991.14 (Petrifilm) ^P	100	pass	
Total Coliforms	< LOQ	cfu/g	100	05/22/23 AOAC 991.14 (Petrifilm) ^P	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	05/21/23 AOAC 2003.07 ^P			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	05/22/23 AOAC 2014.05 (RAPID) ^P	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	05/22/23 AOAC 2014.05 (RAPID) ^P	50000	pass	
Listeria spp.	Negative	/5g	-	05/21/23 AOAC 2019.10 ^P ₁			I
Salmonella spp. by PCR	Negative	/5g	-	05/21/23 AOAC 2020.02 ^P ₂	Negative	pass	I

- 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

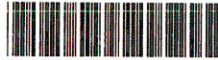
I: Insufficient sample received to meet method requirements.

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



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

Report Number: 23-005958/D033.R000
Report Date: 05/25/2023
Purchase Order: andy51623
Received: 05/17/23 04:14 PM



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

Sample ID: LNK-L42-B22

Sample Matrix: Kratom powder

Laboratory ID: 23-005958-0056-00

Evidence of Cooling: No

Temp: 24.5 °C

Relinquished by: UPS

Sample Results

Mitragynine

Mitragynine + 7-Hydroxymitragynine (S3200)

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine	0.0188	%	0.0100	05/25/23	In house method by HPLC-DAD ^p	
Mitragynine	1.14	%	0.0500	05/25/23	In house method by HPLC-DAD ^p	

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.

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

Units of Measure

% = Percentage of sample

Approved Signatory

Derrick Tanner
General Manager



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

Report Number: 23-005958/D067.R000
Report Date: 05/25/2023
Purchase Order: andy51623
Received: 05/17/23 04:14 PM



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

Sample ID: LNK-L42-B23
Sample Matrix: Kratom powder
Laboratory ID: 23-005958-0023
Evidence of Cooling: No
Temp: 24.5 °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	900	cfu/g	100	05/22/23 AOAC 990.12 (Petrifilm) ^p	10,000,000	pass	
E. coli	< LOQ	cfu/g	100	05/22/23 AOAC 991.14 (Petrifilm) ^p	100	pass	
Total Coliforms	< LOQ	cfu/g	100	05/22/23 AOAC 991.14 (Petrifilm) ^p	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	05/21/23 AOAC 2003.07 ^p			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	05/22/23 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	05/22/23 AOAC 2014.05 (RAPID) ^p	50000	pass	
Listeria spp.	Negative	/5g	-	05/21/23 AOAC 2019.10 ^{p1}			I
Salmonella spp. by PCR	Negative	/5g	-	05/21/23 AOAC 2020.02 ^{p2}	Negative	pass	I

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.

^p = 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: 23-005958/D032.R000
Report Date: 05/25/2023
Purchase Order: andy51623
Received: 05/17/23 04:14 PM



Customer: Lamp Nutra
3133 Tigar Run Ct Ste 104
Carlsbad California 92010
United States of America (USA)
Sample ID: LNK-L42-B23
Sample Matrix: Kratom powder
Laboratory ID: 23-005958-0057-00
Evidence of Cooling: No
Temp: 24.5 °C
Relinquished by: UPS

Sample Results

Mitragynine

Mitragynine + 7-Hydroxymitragynine (S3200)

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine	0.0189	%	0.0100	05/25/23	In house method by HPLC-DAD ^p	
Mitragynine	1.15	%	0.0500	05/25/23	In house method by HPLC-DAD ^p	

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.

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

Units of Measure

% = Percentage of sample

Approved Signatory

Derrick Tanner
General Manager



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

Report Number: 23-005958/D066.R000
Report Date: 05/25/2023
Purchase Order: andy51623
Received: 05/17/23 04:14 PM



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

Sample ID: LNK-L42-B24
Sample Matrix: Kratom powder
Laboratory ID: 23-005958-0024
Evidence of Cooling: No
Temp: 24.5 °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	3,500	cfu/g	100	05/23/23 AOAC 990.12 (Petrifilm) ^P	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	05/23/23 AOAC 991.14 (Petrifilm) ^P	100	pass	
Total Coliforms	< LOQ	cfu/g	100	05/23/23 AOAC 991.14 (Petrifilm) ^P	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	05/22/23 AOAC 2003.07 ^P			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	05/23/23 AOAC 2014.05 (RAPID) ^P	50,000	pass	
Yeast (RAPID Petrifilm)	400	cfu/g	100	05/23/23 AOAC 2014.05 (RAPID) ^P	50000	pass	
Listeria spp.	Negative	/5g	-	05/22/23 AOAC 2019.10 ^P ₁			I
Salmonella spp. by PCR	Negative	/5g	-	05/22/23 AOAC 2020.02 ^P ₂	Negative	pass	I

- 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

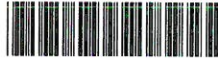
I: Insufficient sample received to meet method requirements.

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



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

Report Number: 23-005958/D027.R000
Report Date: 05/25/2023
Purchase Order: andy51623
Received: 05/17/23 04:14 PM



Customer: Lamp Nutra
3133 Tigar Run Ct Ste 104
Carlsbad California 92010
United States of America (USA)
Sample ID: LNK-L42-B24
Sample Matrix: Kratom powder
Laboratory ID: 23-005958-0058-00
Evidence of Cooling: No
Temp: 24.5 °C
Relinquished by: UPS

Sample Results

Mitragynine

Mitragynine + 7-Hydroxymitragynine (S3200)

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine	0.0179	%	0.0100	05/25/23	In house method by HPLC-DAD [‡]	
Mitragynine	1.16	%	0.0500	05/25/23	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.

[‡] = ISO/IEC 17025:2017 accredited method.

Units of Measure

% = Percentage of sample

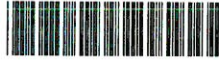
Approved Signatory

Derrick Tanner
General Manager



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

Report Number: 23-005958/D061.R000
Report Date: 05/25/2023
Purchase Order: andy51623
Received: 05/17/23 04:14 PM



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

Sample ID: LNK-L42-B25
Sample Matrix: Kratom powder
Laboratory ID: 23-005958-0025
Evidence of Cooling: No
Temp: 24.5 °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	2,100	cfu/g	100	05/23/23 AOAC 990.12 (Petrifilm) ^p	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	05/23/23 AOAC 991.14 (Petrifilm) ^p	100	pass	
Total Coliforms	< LOQ	cfu/g	100	05/23/23 AOAC 991.14 (Petrifilm) ^p	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	05/22/23 AOAC 2003.07 ^p			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	05/23/23 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Yeast (RAPID Petrifilm)	100	cfu/g	100	05/23/23 AOAC 2014.05 (RAPID) ^p	50000	pass	
Listeria spp.	Negative	/10g	-	05/22/23 AOAC 2019.10 ^p ₁			I
Salmonella spp. by PCR	Negative	/15g	-	05/22/23 AOAC 2020.02 ^p ₂	Negative	pass	I

- 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.

^p = 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
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 503-254-1794

Report Number: 23-005958/D021.R000
Report Date: 05/25/2023
Purchase Order: andy51623
Received: 05/17/23 04:14 PM



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

Sample ID: LNK-L42-B25

Sample Matrix: Kratom powder

Laboratory ID: 23-005958-0059-00

Evidence of Cooling: No

Temp: 24.5 °C

Relinquished by: UPS

Sample Results

Mitragynine

Mitragynine + 7-Hydroxymitragynine (S3200)

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine	0.0164	%	0.0100	05/25/23	In house method by HPLC-DAD [‡]	
Mitragynine	0.981	%	0.0500	05/25/23	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.

[‡] = ISO/IEC 17025:2017 accredited method.

Units of Measure

% = Percentage of sample

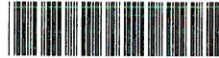
Approved Signatory

Derrick Tanner
 General Manager



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

Report Number: 23-005958/D055.R000
Report Date: 05/25/2023
Purchase Order: andy51623
Received: 05/17/23 04:14 PM



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

Sample ID: LNK-L42-B26
Sample Matrix: Kratom powder
Laboratory ID: 23-005958-0026
Evidence of Cooling: No
Temp: 24.5 °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	600	cfu/g	100	05/23/23 AOAC 990.12 (Petrifilm) ^p	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	05/23/23 AOAC 991.14 (Petrifilm) ^p	100	pass	
Total Coliforms	< LOQ	cfu/g	100	05/23/23 AOAC 991.14 (Petrifilm) ^p	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	05/22/23 AOAC 2003.07 ^p			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	05/23/23 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Yeast (RAPID Petrifilm)	300	cfu/g	100	05/23/23 AOAC 2014.05 (RAPID) ^p	50000	pass	
Listeria spp.	Negative	/10g	-	05/22/23 AOAC 2019.10 ^{p1}			I
Salmonella spp. by PCR	Negative	/10g	-	05/22/23 AOAC 2020.02 ^{p2}	Negative	pass	I

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.

^p = 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
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 503-254-1794

Report Number: 23-005958/D022.R000
Report Date: 05/25/2023
Purchase Order: andy51623
Received: 05/17/23 04:14 PM



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

Sample ID: LNK-L42-B26

Sample Matrix: Kratom powder

Laboratory ID: 23-005958-0060-00

Evidence of Cooling: No

Temp: 24.5 °C

Relinquished by: UPS

Sample Results

Mitragynine

Mitragynine + 7-Hydroxymitragynine (S3200)

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine	0.0209	%	0.0100	05/25/23	In house method by HPLC-DAD ^p	
Mitragynine	1.09	%	0.0500	05/25/23	In house method by HPLC-DAD ^p	

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.

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

Units of Measure

% = Percentage of sample

Approved Signatory

Derrick Tanner
 General Manager



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

Report Number: 23-005958/D056.R000
Report Date: 05/25/2023
Purchase Order: andy51623
Received: 05/17/23 04:14 PM



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

Sample ID: LNK-L42-B27
Sample Matrix: Kratom powder
Laboratory ID: 23-005958-0027
Evidence of Cooling: No
Temp: 24.5 °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	1,700	cfu/g	100	05/23/23 AOAC 990.12 (Petrifilm) ^p	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	05/23/23 AOAC 991.14 (Petrifilm) ^p	100	pass	
Total Coliforms	< LOQ	cfu/g	100	05/23/23 AOAC 991.14 (Petrifilm) ^p	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	05/22/23 AOAC 2003.07 ^p			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	05/23/23 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	05/23/23 AOAC 2014.05 (RAPID) ^p	50000	pass	
Listeria spp.	Negative	/25g	-	05/22/23 AOAC 2019.10 ^{p1}			
Salmonella spp. by PCR	Negative	/25g	-	05/22/23 AOAC 2020.02 ^{p2}	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

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

Units of Measure

/25g = Per 25g

cfu/g = Colony forming units per gram

Approved Signatory

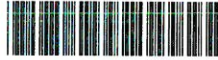
Derrick Tanner
 General Manager

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: 23-005958/D020.R000
Report Date: 05/25/2023
Purchase Order: andy51623
Received: 05/17/23 04:14 PM



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

Sample ID: LNK-L42-B27
Sample Matrix: Kratom powder
Laboratory ID: 23-005958-0061-00
Evidence of Cooling: No
Temp: 24.5 °C
Relinquished by: UPS

Sample Results

Mitragynine

Mitragynine + 7-Hydroxymitragynine (S3200)

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine	0.0190	%	0.0100	05/25/23	In house method by HPLC-DAD ^p	
Mitragynine	1.07	%	0.0500	05/25/23	In house method by HPLC-DAD ^p	

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.

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

Units of Measure

% = Percentage of sample

Approved Signatory

Derrick Tanner
General Manager



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

Report Number: 23-005958/D054.R000
Report Date: 05/25/2023
Purchase Order: andy51623
Received: 05/17/23 04:14 PM



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

Sample ID: LNK-L42-B28
Sample Matrix: Kratom powder
Laboratory ID: 23-005958-0028
Evidence of Cooling: No
Temp: 24.5 °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	300	cfu/g	100	05/23/23 AOAC 990.12 (Petrifilm) ^P	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	05/23/23 AOAC 991.14 (Petrifilm) ^P	100	pass	
Total Coliforms	< LOQ	cfu/g	100	05/23/23 AOAC 991.14 (Petrifilm) ^P	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	05/22/23 AOAC 2003.07 ^P			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	05/23/23 AOAC 2014.05 (RAPID) ^P	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	05/23/23 AOAC 2014.05 (RAPID) ^P	50000	pass	
Listeria spp.	Negative	/10g	-	05/22/23 AOAC 2019.10 ^{P1}			I
Salmonella spp. by PCR	Negative	/5g	-	05/22/23 AOAC 2020.02 ^{P2}	Negative	pass	I

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

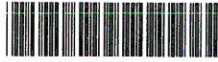
I: Insufficient sample received to meet method requirements.

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



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

Report Number: 23-005958/D025.R000
Report Date: 05/25/2023
Purchase Order: andy51623
Received: 05/17/23 04:14 PM



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

Sample ID: LNK-L42-B28
Sample Matrix: Kratom powder
Laboratory ID: 23-005958-0062-00
Evidence of Cooling: No
Temp: 24.5 °C
Relinquished by: UPS

Sample Results

Mitragynine

Mitragynine + 7-Hydroxymitragynine (S3200)

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine	0.0229	%	0.0100	05/25/23	In house method by HPLC-DAD ^p	
Mitragynine	1.21	%	0.0500	05/25/23	In house method by HPLC-DAD ^p	

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.

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

Units of Measure

% = Percentage of sample

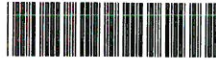
Approved Signatory

Derrick Tanner
General Manager



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

Report Number: 23-005958/D059.R000
Report Date: 05/25/2023
Purchase Order: andy51623
Received: 05/17/23 04:14 PM



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

Sample ID: LNK-L42-B29
Sample Matrix: Kratom powder
Laboratory ID: 23-005958-0029
Evidence of Cooling: No
Temp: 24.5 °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	4,100	cfu/g	100	05/23/23 AOAC 990.12 (Petrifilm) ^P	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	05/23/23 AOAC 991.14 (Petrifilm) ^P	100	pass	
Total Coliforms	< LOQ	cfu/g	100	05/23/23 AOAC 991.14 (Petrifilm) ^P	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	05/22/23 AOAC 2003.07 ^P			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	05/23/23 AOAC 2014.05 (RAPID) ^P	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	05/23/23 AOAC 2014.05 (RAPID) ^P	50000	pass	
Listeria spp.	Negative	/5g	-	05/22/23 AOAC 2019.10 ^{P1}			I
Salmonella spp. by PCR	Negative	/5g	-	05/22/23 AOAC 2020.02 ^{P2}	Negative	pass	I

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

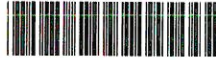
I: Insufficient sample received to meet method requirements.

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



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

Report Number: 23-005958/D024.R000
Report Date: 05/25/2023
Purchase Order: andy51623
Received: 05/17/23 04:14 PM



Customer: Lamp Nutra
3133 Tigar Run Ct Ste 104
Carlsbad California 92010
United States of America (USA)
Sample ID: LNK-L42-B29
Sample Matrix: Kratom powder
Laboratory ID: 23-005958-0063-00
Evidence of Cooling: No
Temp: 24.5 °C
Relinquished by: UPS

Sample Results

Mitragynine

Mitragynine + 7-Hydroxymitragynine (S3200)

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine	0.0259	%	0.0100	05/25/23	In house method by HPLC-DAD ^p	
Mitragynine	1.11	%	0.0500	05/25/23	In house method by HPLC-DAD ^p	

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.

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

Units of Measure

% = Percentage of sample

Approved Signatory

Derrick Tanner
General Manager



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

Report Number: 23-005958/D058.R000
Report Date: 05/25/2023
Purchase Order: andy51623
Received: 05/17/23 04:14 PM



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

Sample ID: LNK-L42-B30
Sample Matrix: Kratom powder
Laboratory ID: 23-005958-0030
Evidence of Cooling: No
Temp: 24.5 °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	300	cfu/g	100	05/23/23 AOAC 990.12 (Petrifilm) ^P	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	05/23/23 AOAC 991.14 (Petrifilm) ^P	100	pass	
Total Coliforms	< LOQ	cfu/g	100	05/23/23 AOAC 991.14 (Petrifilm) ^P	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	05/22/23 AOAC 2003.07 ^P			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	05/23/23 AOAC 2014.05 (RAPID) ^P	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	05/23/23 AOAC 2014.05 (RAPID) ^P	50000	pass	
Listeria spp.	Negative	/5g	-	05/22/23 AOAC 2019.10 ^{P1}			I
Salmonella spp. by PCR	Negative	/5g	-	05/22/23 AOAC 2020.02 ^{P2}	Negative	pass	I

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

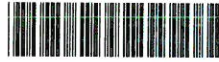
I: Insufficient sample received to meet method requirements.

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



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

Report Number: 23-005958/D023.R000
Report Date: 05/25/2023
Purchase Order: andy51623
Received: 05/17/23 04:14 PM



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

Sample ID: LNK-L42-B30
Sample Matrix: Kratom powder
Laboratory ID: 23-005958-0064-00
Evidence of Cooling: No
Temp: 24.5 °C
Relinquished by: UPS

Sample Results

Mitragynine

Mitragynine + 7-Hydroxymitragynine (S3200)

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine	0.0172	%	0.0100	05/25/23	In house method by HPLC-DAD ^p	
Mitragynine	1.16	%	0.0500	05/25/23	In house method by HPLC-DAD ^p	

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.

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

Units of Measure

% = Percentage of sample

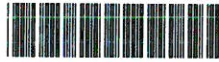
Approved Signatory

Derrick Tanner
General Manager



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

Report Number: 23-005958/D057.R000
Report Date: 05/25/2023
Purchase Order: andy51623
Received: 05/17/23 04:14 PM



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

Sample ID: LNK-L42-B31
Sample Matrix: Kratom powder
Laboratory ID: 23-005958-0031
Evidence of Cooling: No
Temp: 24.5 °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	800	cfu/g	100	05/23/23 AOAC 990.12 (Petrifilm) ^P	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	05/23/23 AOAC 991.14 (Petrifilm) ^P	100	pass	
Total Coliforms	< LOQ	cfu/g	100	05/23/23 AOAC 991.14 (Petrifilm) ^P	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	05/22/23 AOAC 2003.07 ^P			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	05/23/23 AOAC 2014.05 (RAPID) ^P	50,000	pass	
Yeast (RAPID Petrifilm)	100	cfu/g	100	05/23/23 AOAC 2014.05 (RAPID) ^P	50000	pass	
Listeria spp.	Negative	/10g	-	05/22/23 AOAC 2019.10 ^{P1}			I
Salmonella spp. by PCR	Negative	/10g	-	05/22/23 AOAC 2020.02 ^{P2}	Negative	pass	I

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

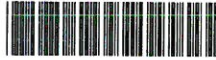
I: Insufficient sample received to meet method requirements.

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



12423 NE Whitaker Way
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503-254-1794

Report Number: 23-005958/D026.R000
Report Date: 05/25/2023
Purchase Order: andy51623
Received: 05/17/23 04:14 PM



Customer: Lamp Nutra
3133 Tigar Run Ct Ste 104
Carlsbad California 92010
United States of America (USA)
Sample ID: LNK-L42-B31
Sample Matrix: Kratom powder
Laboratory ID: 23-005958-0065-00
Evidence of Cooling: No
Temp: 24.5 °C
Relinquished by: UPS

Sample Results

Mitragynine

Mitragynine + 7-Hydroxymitragynine (S3200)

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine	0.0136	%	0.0100	05/25/23	In house method by HPLC-DAD ^p	
Mitragynine	1.11	%	0.0500	05/25/23	In house method by HPLC-DAD ^p	

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.

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

Units of Measure

% = Percentage of sample

Approved Signatory

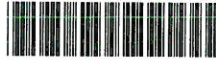
Derrick Tanner
General Manager

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.



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503-254-1794

Report Number: 23-005958/D060.R000
Report Date: 05/25/2023
Purchase Order: andy51623
Received: 05/17/23 04:14 PM



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

Sample ID: LNK-L42-B32
Sample Matrix: Kratom powder
Laboratory ID: 23-005958-0032
Evidence of Cooling: No
Temp: 24.5 °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	800	cfu/g	100	05/23/23 AOAC 990.12 (Petrifilm) ^P	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	05/23/23 AOAC 991.14 (Petrifilm) ^P	100	pass	
Total Coliforms	< LOQ	cfu/g	100	05/23/23 AOAC 991.14 (Petrifilm) ^P	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	05/22/23 AOAC 2003.07 ^P			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	05/23/23 AOAC 2014.05 (RAPID) ^P	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	05/23/23 AOAC 2014.05 (RAPID) ^P	50000	pass	
Listeria spp.	Negative	/10g	-	05/22/23 AOAC 2019.10 ^{P1}			I
Salmonella spp. by PCR	Negative	/25g	-	05/22/23 AOAC 2020.02 ^{P2}	Negative	pass	

1) GENE-UP® Assay

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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

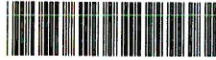
I: Insufficient sample received to meet method requirements.

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



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

Report Number: 23-005958/D019.R000
Report Date: 05/25/2023
Purchase Order: andy51623
Received: 05/17/23 04:14 PM



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

Sample ID: LNK-L42-B32

Sample Matrix: Kratom powder

Laboratory ID: 23-005958-0066-00

Evidence of Cooling: No

Temp: 24.5 °C

Relinquished by: UPS

Sample Results

Mitragynine

Mitragynine + 7-Hydroxymitragynine (S3200)

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine	0.0138	%	0.0100	05/25/23	In house method by HPLC-DAD ^p	
Mitragynine	1.09	%	0.0500	05/25/23	In house method by HPLC-DAD ^p	

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.

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

Units of Measure

% = Percentage of sample

Approved Signatory

Derrick Tanner
General Manager



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

Report Number: 23-005958/D053.R000
Report Date: 05/25/2023
Purchase Order: andy51623
Received: 05/17/23 04:14 PM



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

Sample ID: LNK-L42-B33
Sample Matrix: Kratom powder
Laboratory ID: 23-005958-0033
Evidence of Cooling: No
Temp: 24.5 °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	900	cfu/g	100	05/23/23 AOAC 990.12 (Petrifilm) ^P	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	05/23/23 AOAC 991.14 (Petrifilm) ^P	100	pass	
Total Coliforms	< LOQ	cfu/g	100	05/23/23 AOAC 991.14 (Petrifilm) ^P	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	05/22/23 AOAC 2003.07 ^P			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	05/23/23 AOAC 2014.05 (RAPID) ^P	50,000	pass	
Yeast (RAPID Petrifilm)	400	cfu/g	100	05/23/23 AOAC 2014.05 (RAPID) ^P	50000	pass	
Listeria spp.	Negative	/5g	-	05/22/23 AOAC 2019.10 ^{P1}			I
Salmonella spp. by PCR	Negative	/5g	-	05/22/23 AOAC 2020.02 ^{P2}	Negative	pass	I

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.

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



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

Report Number: 23-005958/D028.R000
Report Date: 05/25/2023
Purchase Order: andy51623
Received: 05/17/23 04:14 PM



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

Sample ID: LNK-L42-B33
Sample Matrix: Kratom powder
Laboratory ID: 23-005958-0067-00
Evidence of Cooling: No
Temp: 24.5 °C
Relinquished by: UPS

Sample Results

Mitragynine

Mitragynine + 7-Hydroxymitragynine (S3200)

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine	0.0165	%	0.0100	05/25/23	In house method by HPLC-DAD ^p	
Mitragynine	1.11	%	0.0500	05/25/23	In house method by HPLC-DAD ^p	

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.

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

Units of Measure

% = Percentage of sample

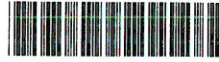
Approved Signatory

Derrick Tanner
 General Manager



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

Report Number: 23-005958/D062.R000
Report Date: 05/25/2023
Purchase Order: andy51623
Received: 05/17/23 04:14 PM



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

Sample ID: LNK-L42-B34
Sample Matrix: Kratom powder
Laboratory ID: 23-005958-0034
Evidence of Cooling: No
Temp: 24.5 °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	400	cfu/g	100	05/23/23 AOAC 990.12 (Petrifilm) ^P	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	05/23/23 AOAC 991.14 (Petrifilm) ^P	100	pass	
Total Coliforms	< LOQ	cfu/g	100	05/23/23 AOAC 991.14 (Petrifilm) ^P	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	05/22/23 AOAC 2003.07 ^P			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	05/23/23 AOAC 2014.05 (RAPID) ^P	50,000	pass	
Yeast (RAPID Petrifilm)	200	cfu/g	100	05/23/23 AOAC 2014.05 (RAPID) ^P	50000	pass	
Listeria spp.	Negative	/25g	-	05/22/23 AOAC 2019.10 ^{P1}			
Salmonella spp. by PCR	Negative	/10g	-	05/22/23 AOAC 2020.02 ^{P2}	Negative	pass	I

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

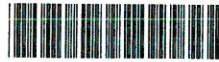
I: Insufficient sample received to meet method requirements.

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



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

Report Number: 23-005958/D002.R000
Report Date: 05/25/2023
Purchase Order: andy51623
Received: 05/17/23 04:14 PM



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

Sample ID: LNK-L42-B34
Sample Matrix: Kratom powder
Laboratory ID: 23-005958-0068-00
Evidence of Cooling: No
Temp: 24.5 °C
Relinquished by: UPS

Sample Results

Mitragynine

Mitragynine + 7-Hydroxymitragynine (S3200)

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine	0.0150	%	0.0100	05/25/23	In house method by HPLC-DAD ^p	
Mitragynine	1.14	%	0.0500	05/25/23	In house method by HPLC-DAD ^p	

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.

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

Units of Measure

% = Percentage of sample

Approved Signatory

Derrick Tanner
General Manager