



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

Report Number: 23-001235/D023.R000
Report Date: 02/06/2023
Purchase Order: andy12623
Received: 01/30/23 10:05 AM



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

Sample ID: LNK-L39-B1
Sample Matrix: Kratom powder
Laboratory ID: 23-001235-0001
Evidence of Cooling: No
Temp: 13.6
Relinquished by: ups

Sample Results

Microbiology

Micro Profile L Rapid (M6000)

Analyte	Result	Units	LOQ	Analized Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	< LOQ	cfu/g	100	02/03/23 AOAC 990.12 (Petrifilm) ^b	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	02/03/23 AOAC 991.14 (Petrifilm) ^b	100	pass	
Total Coliforms	< LOQ	cfu/g	100	02/03/23 AOAC 991.14 (Petrifilm) ^b	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	02/02/23 AOAC 2003.07 ^b			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	02/04/23 AOAC 2014.05 (RAPID) ^b	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	02/04/23 AOAC 2014.05 (RAPID) ^b	50,000	pass	
Listeria spp.	Negative	/25g	-	02/02/23 AOAC 2019.10 ^b ₁			
Salmonella spp. by PCR	Negative	/25g	-	02/02/23 AOAC 2020.02 ^b 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

^b = 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: 23-001235/D016.R000
Report Date: 02/06/2023
Purchase Order: andy12623
Received: 01/30/23 10:05 AM



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

Sample ID: LNK-L39-B1
Sample Matrix: Kratom powder
Laboratory ID: 23-001235-0001
Evidence of Cooling: No
Temp: 13.6
Relinquished by: ups

Sample Results

Mitragynine

Mitragynine + 7-Hydroxymitragynine (S3200)

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	0.0105	%	0.0100	02/06/23 In house method by HPLC-DAD ^p			
Mitragynine	0.617	%	0.0500	02/06/23 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: 23-001235/D022.R000
Report Date: 02/06/2023
Purchase Order: andy12623
Received: 01/30/23 10:05 AM



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

Sample ID: LNK-L39-B2
Sample Matrix: Kratom powder
Laboratory ID: 23-001235-0002
Evidence of Cooling: No
Temp: 13.6
Relinquished by: ups

Sample Results

Microbiology

Micro Profile L Rapid (M6000)

Analyte	Result	Units	LOQ	Analized Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	< LOQ	cfu/g	100	02/03/23 AOAC 990.12 (Petrifilm) ^p	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	02/03/23 AOAC 991.14 (Petrifilm) ^p	100	pass	
Total Coliforms	< LOQ	cfu/g	100	02/03/23 AOAC 991.14 (Petrifilm) ^p	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	02/02/23 AOAC 2003.07 ^p			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	02/04/23 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	02/04/23 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Listeria spp.	Negative	/25g	-	02/02/23 AOAC 2019.10 ^{p1}			
Salmonella spp. by PCR	Negative	/25g	-	02/02/23 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: 23-001235/D020.R000
Report Date: 02/06/2023
Purchase Order: andy12623
Received: 01/30/23 10:05 AM



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

Sample ID: LNK-L39-B2
Sample Matrix: Kratom powder
Laboratory ID: 23-001235-0002
Evidence of Cooling: No
Temp: 13.6
Relinquished by: ups

Sample Results

Mitragynine

Mitragynine + 7-Hydroxymitragynine (S3200)

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	0.0118	%	0.0100	02/06/23 In house method by HPLC-DAD ^p			
Mitragynine	0.641	%	0.0500	02/06/23 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



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

Sample ID: LNK-L39-B3
Sample Matrix: Kratom powder
Laboratory ID: 23-001235-0003
Evidence of Cooling: No
Temp: 13.6
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	02/03/23 AOAC 990.12 (Petrifilm) ^p	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	02/03/23 AOAC 991.14 (Petrifilm) ^p	100	pass	
Total Coliforms	< LOQ	cfu/g	100	02/03/23 AOAC 991.14 (Petrifilm) ^p	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	02/02/23 AOAC 2003.07 ^p			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	02/04/23 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	02/04/23 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Listeria spp.	Negative	/25g	-	02/02/23 AOAC 2019.10 ^{p1}			
Salmonella spp. by PCR	Negative	/25g	-	02/02/23 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: 23-001235/D019.R000
Report Date: 02/06/2023
Purchase Order: andy12623
Received: 01/30/23 10:05 AM



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

Sample ID: LNK-L39-B3
Sample Matrix: Kratom powder
Laboratory ID: 23-001235-0003
Evidence of Cooling: No
Temp: 13.6
Relinquished by: ups

Sample Results

Mitragynine

Mitragynine + 7-Hydroxymitragynine (S3200)

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	0.0164	%	0.0100	02/06/23 In house method by HPLC-DAD ^p			
Mitragynine	1.05	%	0.0500	02/06/23 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
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Report Number: 23-001235/D017.R000
Report Date: 02/06/2023
Purchase Order: andy12623
Received: 01/30/23 10:05 AM



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

Sample ID: LNK-L39-B4
Sample Matrix: Kratom powder
Laboratory ID: 23-001235-0004
Evidence of Cooling: No
Temp: 13.6
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	02/03/23 AOAC 990.12 (Petrifilm) ^b	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	02/03/23 AOAC 991.14 (Petrifilm) ^b	100	pass	
Total Coliforms	< LOQ	cfu/g	100	02/03/23 AOAC 991.14 (Petrifilm) ^b	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	02/02/23 AOAC 2003.07 ^b			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	02/04/23 AOAC 2014.05 (RAPID) ^b	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	02/04/23 AOAC 2014.05 (RAPID) ^b	50,000	pass	
Listeria spp.	Negative	/25g	-	02/02/23 AOAC 2019.10 ^b ₁			
Salmonella spp. by PCR	Negative	/25g	-	02/02/23 AOAC 2020.02 ^b 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

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

Units of Measure

/25g = Per 25g

cfu/g = Colony forming units per gram

Approved Signatory

Derrick Tanner
 General Manager



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

Sample ID: LNK-L39-B4
Sample Matrix: Kratom powder
Laboratory ID: 23-001235-0004
Evidence of Cooling: No
Temp: 13.6
Relinquished by: ups

Sample Results

Mitragynine

Mitragynine + 7-Hydroxymitragynine (S3200)

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	0.0212	%	0.0100	02/06/23 In house method by HPLC-DAD ^p			
Mitragynine	1.09	%	0.0500	02/06/23 In house method by HPLC-DAD ^p			

Abbreviations

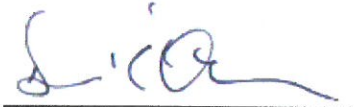
Limit(s) of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

^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: 23-001235/D029.R000
Report Date: 02/06/2023
Purchase Order: andy12623
Received: 01/30/23 10:05 AM



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

Sample ID: LNK-L39-B5
Sample Matrix: Kratom powder
Laboratory ID: 23-001235-0005
Evidence of Cooling: No
Temp: 13.6
Relinquished by: ups

Sample Results

Microbiology

Micro Profile L Rapid (M6000)

Analyte	Result	Units	LOQ	Analized Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	< LOQ	cfu/g	100	02/03/23 AOAC 990.12 (Petrifilm) ^b	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	02/03/23 AOAC 991.14 (Petrifilm) ^b	100	pass	
Total Coliforms	< LOQ	cfu/g	100	02/03/23 AOAC 991.14 (Petrifilm) ^b	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	02/02/23 AOAC 2003.07 ^b			
Mold (RAPID Petrifilm)	100	cfu/g	100	02/04/23 AOAC 2014.05 (RAPID) ^b	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	02/04/23 AOAC 2014.05 (RAPID) ^b	50,000	pass	
Listeria spp.	Negative	/25g	-	02/02/23 AOAC 2019.10 ^b ₁			
Salmonella spp. by PCR	Negative	/25g	-	02/02/23 AOAC 2020.02 ^b 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

^b = 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: 23-001235/D028.R000
Report Date: 02/06/2023
Purchase Order: andy12623
Received: 01/30/23 10:05 AM



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

Sample ID: LNK-L39-B5
Sample Matrix: Kratom powder
Laboratory ID: 23-001235-0005
Evidence of Cooling: No
Temp: 13.6
Relinquished by: ups

Sample Results

Mitragynine

Mitragynine + 7-Hydroxymitragynine (S3200)

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	0.0180	%	0.0100	02/06/23 In house method by HPLC-DAD ^p			
Mitragynine	0.824	%	0.0500	02/06/23 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

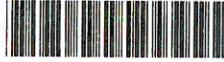
Approved Signatory

Derrick Tanner
General Manager



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

Report Number: 23-001235/D026.R000
Report Date: 02/06/2023
Purchase Order: andy12623
Received: 01/30/23 10:05 AM



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

Sample ID: LNK-L39-B6
Sample Matrix: Kratom powder
Laboratory ID: 23-001235-0006
Evidence of Cooling: No
Temp: 13.6
Relinquished by: ups

Sample Results

Microbiology

Micro Profile L Rapid (M6000)

Analyte	Result	Units	LOQ	Analized Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	< LOQ	cfu/g	100	02/03/23 AOAC 990.12 (Petrifilm) ^b	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	02/03/23 AOAC 991.14 (Petrifilm) ^b	100	pass	
Total Coliforms	< LOQ	cfu/g	100	02/03/23 AOAC 991.14 (Petrifilm) ^b	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	02/02/23 AOAC 2003.07 ^b			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	02/04/23 AOAC 2014.05 (RAPID) ^b	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	02/04/23 AOAC 2014.05 (RAPID) ^b	50,000	pass	
Listeria spp.	Negative	/25g	-	02/02/23 AOAC 2019.10 ^{b1}			
Salmonella spp. by PCR	Negative	/25g	-	02/02/23 AOAC 2020.02 ^{b2}	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

^b = 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: 23-001235/D024.R000
Report Date: 02/06/2023
Purchase Order: andy12623
Received: 01/30/23 10:05 AM



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

Sample ID: LNK-L39-B6
Sample Matrix: Kratom powder
Laboratory ID: 23-001235-0006
Evidence of Cooling: No
Temp: 13.6
Relinquished by: ups

Sample Results

Mitragynine

Mitragynine + 7-Hydroxymitragynine (S3200)

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	0.0214	%	0.0100	02/06/23 In house method by HPLC-DAD ^p			
Mitragynine	0.890	%	0.0500	02/06/23 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: 23-001235/D025.R000
Report Date: 02/06/2023
Purchase Order: andy12623
Received: 01/30/23 10:05 AM



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

Sample ID: LNK-L39-B7
Sample Matrix: Kratom powder
Laboratory ID: 23-001235-0007
Evidence of Cooling: No
Temp: 13.6
Relinquished by: ups

Sample Results
Microbiology

Micro Profile L Rapid (M6000)

Analyte	Result	Units	LOQ	Analized Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	< LOQ	cfu/g	100	02/03/23 AOAC 990.12 (Petrifilm) ^b	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	02/03/23 AOAC 991.14 (Petrifilm) ^b	100	pass	
Total Coliforms	< LOQ	cfu/g	100	02/03/23 AOAC 991.14 (Petrifilm) ^b	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	02/02/23 AOAC 2003.07 ^b			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	02/04/23 AOAC 2014.05 (RAPID) ^b	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	02/04/23 AOAC 2014.05 (RAPID) ^b	50,000	pass	
Listeria spp.	Negative	/25g	-	02/02/23 AOAC 2019.10 ^b ₁			
Salmonella spp. by PCR	Negative	/25g	-	02/02/23 AOAC 2020.02 ^b 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

^b = 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: 23-001235/D027.R000
Report Date: 02/06/2023
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Received: 01/30/23 10:05 AM



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

Sample ID: LNK-L39-B7
Sample Matrix: Kratom powder
Laboratory ID: 23-001235-0007
Evidence of Cooling: No
Temp: 13.6
Relinquished by: ups

Sample Results

Mitragynine

Mitragynine + 7-Hydroxymitragynine (S3200)

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	0.0193	%	0.0100	02/06/23 In house method by HPLC-DAD ^p			
Mitragynine	0.607	%	0.0500	02/06/23 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: 23-001235/D008.R000
Report Date: 02/06/2023
Purchase Order: andy12623
Received: 01/30/23 10:05 AM



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

Sample ID: LNK-L39-B8
Sample Matrix: Kratom powder
Laboratory ID: 23-001235-0008
Evidence of Cooling: No
Temp: 13.6
Relinquished by: ups

Sample Results

Microbiology

Micro Profile L Rapid (M6000)

Analyte	Result	Units	LOQ	Analized Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	< LOQ	cfu/g	100	02/03/23 AOAC 990.12 (Petrifilm) ^p	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	02/03/23 AOAC 991.14 (Petrifilm) ^p	100	pass	
Total Coliforms	< LOQ	cfu/g	100	02/03/23 AOAC 991.14 (Petrifilm) ^p	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	02/02/23 AOAC 2003.07 ^p			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	02/04/23 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	02/04/23 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Listeria spp.	Negative	/25g	-	02/02/23 AOAC 2019.10 ^p ₁			
Salmonella spp. by PCR	Negative	/25g	-	02/02/23 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

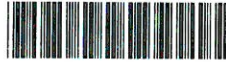
Derrick Tanner
 General Manager

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: 23-001235/D006.R000
Report Date: 02/06/2023
Purchase Order: andy12623
Received: 01/30/23 10:05 AM



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

Sample ID: LNK-L39-B8
Sample Matrix: Kratom powder
Laboratory ID: 23-001235-0008
Evidence of Cooling: No
Temp: 13.6
Relinquished by: ups

Sample Results

Mitragynine

Mitragynine + 7-Hydroxymitragynine (S3200)

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	0.0163	%	0.0100	02/06/23 In house method by HPLC-DAD ^p			
Mitragynine	0.659	%	0.0500	02/06/23 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: 23-001235/D007.R000
Report Date: 02/06/2023
Purchase Order: andy12623
Received: 01/30/23 10:05 AM



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

Sample ID: LNK-L39-B9
Sample Matrix: Kratom powder
Laboratory ID: 23-001235-0009
Evidence of Cooling: No
Temp: 13.6
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	02/03/23 AOAC 990.12 (Petrifilm) ^b	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	02/03/23 AOAC 991.14 (Petrifilm) ^b	100	pass	
Total Coliforms	< LOQ	cfu/g	100	02/03/23 AOAC 991.14 (Petrifilm) ^b	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	02/02/23 AOAC 2003.07 ^b			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	02/04/23 AOAC 2014.05 (RAPID) ^b	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	02/04/23 AOAC 2014.05 (RAPID) ^b	50,000	pass	
Listeria spp.	Negative	/25g	-	02/02/23 AOAC 2019.10 ^b ₁			
Salmonella spp. by PCR	Negative	/25g	-	02/02/23 AOAC 2020.02 ^b 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

^b = 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: 23-001235/D005.R000
Report Date: 02/06/2023
Purchase Order: andy12623
Received: 01/30/23 10:05 AM



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

Sample ID: LNK-L39-B9
Sample Matrix: Kratom powder
Laboratory ID: 23-001235-0009
Evidence of Cooling: No
Temp: 13.6
Relinquished by: ups

Sample Results

Mitragynine

Mitragynine + 7-Hydroxymitragynine (S3200)

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	0.0155	%	0.0100	02/06/23 In house method by HPLC-DAD ^p			
Mitragynine	0.867	%	0.0500	02/06/23 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: 23-001235/D003.R000
Report Date: 02/06/2023
Purchase Order: andy12623
Received: 01/30/23 10:05 AM



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

Sample ID: LNK-L39-B10
Sample Matrix: Kratom powder
Laboratory ID: 23-001235-0010
Evidence of Cooling: No
Temp: 13.6
Relinquished by: ups

Sample Results

Microbiology

Micro Profile L Rapid (M6000)

Analyte	Result	Units	LOQ	Analized Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	< LOQ	cfu/g	100	02/03/23 AOAC 990.12 (Petrifilm) ^b	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	02/03/23 AOAC 991.14 (Petrifilm) ^b	100	pass	
Total Coliforms	< LOQ	cfu/g	100	02/03/23 AOAC 991.14 (Petrifilm) ^b	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	02/02/23 AOAC 2003.07 ^b			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	02/04/23 AOAC 2014.05 (RAPID) ^b	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	02/04/23 AOAC 2014.05 (RAPID) ^b	50,000	pass	
Listeria spp.	Negative	/25g	-	02/02/23 AOAC 2019.10 ^b ₁			
Salmonella spp. by PCR	Negative	/25g	-	02/02/23 AOAC 2020.02 ^b 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

^b = 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: 23-001235/D004.R000
Report Date: 02/06/2023
Purchase Order: andy12623
Received: 01/30/23 10:05 AM



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

Sample ID: LNK-L39-B10
Sample Matrix: Kratom powder
Laboratory ID: 23-001235-0010
Evidence of Cooling: No
Temp: 13.6
Relinquished by: ups

Sample Results

Mitragynine

Mitragynine + 7-Hydroxymitragynine (S3200)

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	0.0124	%	0.0100	02/06/23 In house method by HPLC-DAD ^p			
Mitragynine	0.463	%	0.0500	02/06/23 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: 23-001235/D015.R000
Report Date: 02/06/2023
Purchase Order: andy12623
Received: 01/30/23 10:05 AM



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

Sample ID: LNK-L39-B11
Sample Matrix: Kratom powder
Laboratory ID: 23-001235-0011
Evidence of Cooling: No
Temp: 13.6
Relinquished by: ups

Sample Results

Microbiology

Micro Profile L Rapid (M6000)

Analyte	Result	Units	LOQ	Analized Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	< LOQ	cfu/g	100	02/03/23 AOAC 990.12 (Petrifilm) ^p	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	02/03/23 AOAC 991.14 (Petrifilm) ^p	100	pass	
Total Coliforms	< LOQ	cfu/g	100	02/03/23 AOAC 991.14 (Petrifilm) ^p	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	02/02/23 AOAC 2003.07 ^p			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	02/04/23 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	02/04/23 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Listeria spp.	Negative	/25g	-	02/02/23 AOAC 2019.10 ^p ₁			
Salmonella spp. by PCR	Negative	/25g	-	02/02/23 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

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

Report Number: 23-001235/D014.R000
Report Date: 02/06/2023
Purchase Order: andy12623
Received: 01/30/23 10:05 AM



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

Sample ID: LNK-L39-B11
Sample Matrix: Kratom powder
Laboratory ID: 23-001235-0011
Evidence of Cooling: No
Temp: 13.6
Relinquished by: ups

Sample Results

Mitragynine

Mitragynine + 7-Hydroxymitragynine (S3200)

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	0.0143	%	0.0100	02/06/23 In house method by HPLC-DAD ^p			
Mitragynine	0.662	%	0.0500	02/06/23 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: 23-001235/D012.R000
Report Date: 02/06/2023
Purchase Order: andy12623
Received: 01/30/23 10:05 AM



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

Sample ID: LNK-L39-B12
Sample Matrix: Kratom powder
Laboratory ID: 23-001235-0012
Evidence of Cooling: No
Temp: 13.6
Relinquished by: ups

Sample Results

Microbiology

Micro Profile L Rapid (M6000)

Analyte	Result	Units	LOQ	Analized Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	< LOQ	cfu/g	100	02/03/23 AOAC 990.12 (Petrifilm) ^b	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	02/03/23 AOAC 991.14 (Petrifilm) ^b	100	pass	
Total Coliforms	< LOQ	cfu/g	100	02/03/23 AOAC 991.14 (Petrifilm) ^b	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	02/02/23 AOAC 2003.07 ^b			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	02/04/23 AOAC 2014.05 (RAPID) ^b	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	02/04/23 AOAC 2014.05 (RAPID) ^b	50,000	pass	
Listeria spp.	Negative	/25g	-	02/02/23 AOAC 2019.10 ^b ₁			
Salmonella spp. by PCR	Negative	/25g	-	02/02/23 AOAC 2020.02 ^b 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

^b = 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: 23-001235/D010.R000
Report Date: 02/06/2023
Purchase Order: andy12623
Received: 01/30/23 10:05 AM



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

Sample ID: LNK-L39-B12
Sample Matrix: Kratom powder
Laboratory ID: 23-001235-0012
Evidence of Cooling: No
Temp: 13.6
Relinquished by: ups

Sample Results

Mitragynine

Mitragynine + 7-Hydroxymitragynine (S3200)

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	0.0142	%	0.0100	02/06/23 In house method by HPLC-DAD ^p			
Mitragynine	0.631	%	0.0500	02/06/23 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

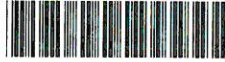
Approved Signatory

Derrick Tanner
General Manager



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

Report Number: 23-001235/D011.R000
 Report Date: 02/06/2023
 Purchase Order: andy12623
 Received: 01/30/23 10:05 AM



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

Sample ID: LNK-L39-B13
 Sample Matrix: Kratom powder
 Laboratory ID: 23-001235-0013
 Evidence of Cooling: No
 Temp: 13.6
 Relinquished by: ups

Sample Results

Microbiology

Micro Profile L Rapid (M6000)

Analyte	Result	Units	LOQ	Analized Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	< LOQ	cfu/g	100	02/03/23 AOAC 990.12 (Petrifilm) ^b	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	02/03/23 AOAC 991.14 (Petrifilm) ^b	100	pass	
Total Coliforms	< LOQ	cfu/g	100	02/03/23 AOAC 991.14 (Petrifilm) ^b	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	02/02/23 AOAC 2003.07 ^b			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	02/04/23 AOAC 2014.05 (RAPID) ^b	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	02/04/23 AOAC 2014.05 (RAPID) ^b	50,000	pass	
Listeria spp.	Negative	/25g	-	02/02/23 AOAC 2019.10 ^b ₁			
Salmonella spp. by PCR	Negative	/25g	-	02/02/23 AOAC 2020.02 ^b 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

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

Units of Measure

/25g = Per 25g

cfu/g = Colony forming units per gram

Approved Signatory

Derrick Tanner
 General Manager



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

Sample ID: LNK-L39-B13
Sample Matrix: Kratom powder
Laboratory ID: 23-001235-0013
Evidence of Cooling: No
Temp: 13.6
Relinquished by: ups

Sample Results

Mitragynine

Mitragynine + 7-Hydroxymitragynine (S3200)

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	0.0232	%	0.0100	02/06/23 In house method by HPLC-DAD ^p			
Mitragynine	1.15	%	0.0500	02/06/23 In house method by HPLC-DAD ^p			

Abbreviations

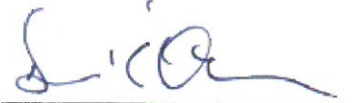
Limit(s) of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

^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: 23-001235/D013.R000
Report Date: 02/06/2023
Purchase Order: andy12623
Received: 01/30/23 10:05 AM



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

Sample ID: LNK-L39-B14
Sample Matrix: Kratom powder
Laboratory ID: 23-001235-0014
Evidence of Cooling: No
Temp: 13.6
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	02/03/23 AOAC 990.12 (Petrifilm) ^b	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	02/03/23 AOAC 991.14 (Petrifilm) ^b	100	pass	
Total Coliforms	< LOQ	cfu/g	100	02/03/23 AOAC 991.14 (Petrifilm) ^b	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	02/02/23 AOAC 2003.07 ^b			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	02/04/23 AOAC 2014.05 (RAPID) ^b	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	02/04/23 AOAC 2014.05 (RAPID) ^b	50,000	pass	
Listeria spp.	Negative	/25g	-	02/02/23 AOAC 2019.10 ^b ₁			
Salmonella spp. by PCR	Negative	/25g	-	02/02/23 AOAC 2020.02 ^b 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

^b = 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: 23-001235/D002.R000
Report Date: 02/06/2023
Purchase Order: andy12623
Received: 01/30/23 10:05 AM



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

Sample ID: LNK-L39-B14
Sample Matrix: Kratom powder
Laboratory ID: 23-001235-0014
Evidence of Cooling: No
Temp: 13.6
Relinquished by: ups

Sample Results

Mitragynine

Mitragynine + 7-Hydroxymitragynine (S3200)

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	0.0153	%	0.0100	02/06/23 In house method by HPLC-DAD ^p			
Mitragynine	0.681	%	0.0500	02/06/23 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