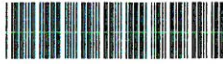




12423 NE Whitaker Way
 Portland, OR 97230
 503-254-1794

Report Number: 23-002248/D022.R000
Report Date: 03/01/2023
Purchase Order: andy22123
Received: 02/22/23 10:28 AM



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

Sample ID: LNK-L40-B1
Sample Matrix: Kratom powder
Laboratory ID: 23-002248-0001
Evidence of Cooling: No
Temp: 11.8 °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	02/27/23 AOAC 990.12 (Petrifilm) ^p	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	02/27/23 AOAC 991.14 (Petrifilm) ^p	100	pass	
Total Coliforms	< LOQ	cfu/g	100	02/27/23 AOAC 991.14 (Petrifilm) ^p	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	02/26/23 AOAC 2003.07 ^p			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	02/28/23 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	02/28/23 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Listeria spp.	Negative	/5g	-	02/26/23 AOAC 2019.10 ^p ₁			I
Salmonella spp. by PCR	Negative	/10g	-	02/26/23 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

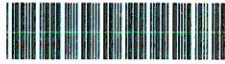
Glossary of Qualifiers

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: 23-002248/D015.R000
Report Date: 03/01/2023
Purchase Order: andy22123
Received: 02/22/23 10:28 AM

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

Sample ID: LNK-L40-B1
Sample Matrix: Kratom powder
Laboratory ID: 23-002248-0001
Evidence of Cooling: No
Temp: 11.8 °C
Relinquished by: UPS

Sample Results

Mitragynine

Mitragynine + 7-Hydroxymitragynine (S3200)

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	0.0127	%	0.0100	03/01/23 In house method by HPLC-DAD ^p			
Mitragynine	0.973	%	0.0500	03/01/23 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

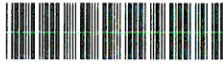
Approved Signatory

Derrick Tanner
General Manager



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

Report Number: 23-002248/D019.R000
Report Date: 03/01/2023
Purchase Order: andy22123
Received: 02/22/23 10:28 AM



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

Sample ID: LNK-L40-B2
Sample Matrix: Kratom powder
Laboratory ID: 23-002248-0002
Evidence of Cooling: No
Temp: 11.8 °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	85,000	cfu/g	1,000	02/27/23 AOAC 990.12 (Petrifilm) ^p	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	02/27/23 AOAC 991.14 (Petrifilm) ^p	100	pass	
Total Coliforms	< LOQ	cfu/g	100	02/27/23 AOAC 991.14 (Petrifilm) ^p	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	02/26/23 AOAC 2003.07 ^p			
Mold (RAPID Petrifilm)	800	cfu/g	100	02/28/23 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	02/28/23 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Listeria spp.	Negative	/5g	-	02/26/23 AOAC 2019.10 ^{p1}			I
Salmonella spp. by PCR	Negative	/5g	-	02/26/23 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

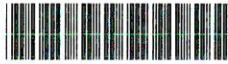
I: Insufficient sample received to meet method requirements.

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



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

Report Number: 23-002248/D018.R000
Report Date: 03/01/2023
Purchase Order: andy22123
Received: 02/22/23 10:28 AM



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

Sample ID: LNK-L40-B2
Sample Matrix: Kratom powder
Laboratory ID: 23-002248-0002
Evidence of Cooling: No
Temp: 11.8 °C
Relinquished by: UPS

Sample Results

Mitragynine

Mitragynine + 7-Hydroxymitragynine (S3200)

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	0.0154	%	0.0100	03/01/23 In house method by HPLC-DAD ^p			
Mitragynine	1.21	%	0.0500	03/01/23 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.

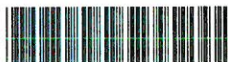
^p = ISO/IEC 17025:2017 accredited method.

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-L40-B3
Sample Matrix: Kratom powder
Laboratory ID: 23-002248-0003
Evidence of Cooling: No
Temp: 11.8 °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	02/27/23 AOAC 990.12 (Petrifilm) ^p	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	02/27/23 AOAC 991.14 (Petrifilm) ^p	100	pass	
Total Coliforms	< LOQ	cfu/g	100	02/27/23 AOAC 991.14 (Petrifilm) ^p	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	02/26/23 AOAC 2003.07 ^p			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	02/28/23 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	02/28/23 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Listeria spp.	Negative	/5g	-	02/26/23 AOAC 2019.10 ^{p1}			I
Salmonella spp. by PCR	Negative	/10g	-	02/26/23 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: 23-002248/D016.R000
Report Date: 03/01/2023
Purchase Order: andy22123
Received: 02/22/23 10:28 AM



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

Sample ID: LNK-L40-B3
Sample Matrix: Kratom powder
Laboratory ID: 23-002248-0003
Evidence of Cooling: No
Temp: 11.8 °C
Relinquished by: UPS

Sample Results

Mitragynine

Mitragynine + 7-Hydroxymitragynine (S3200)

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	0.0128	%	0.0100	03/01/23 In house method by HPLC-DAD ^p			
Mitragynine	1.14	%	0.0500	03/01/23 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

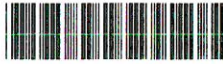
Approved Signatory

Derrick Tanner
General Manager



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

Report Number: 23-002248/D017.R000
Report Date: 03/01/2023
Purchase Order: andy22123
Received: 02/22/23 10:28 AM



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

Sample ID: LNK-L40-B4
Sample Matrix: Kratom powder
Laboratory ID: 23-002248-0004
Evidence of Cooling: No
Temp: 11.8 °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	28,000	cfu/g	1,000	02/27/23 AOAC 990.12 (Petrifilm) ^p	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	02/27/23 AOAC 991.14 (Petrifilm) ^p	100	pass	
Total Coliforms	< LOQ	cfu/g	100	02/27/23 AOAC 991.14 (Petrifilm) ^p	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	02/26/23 AOAC 2003.07 ^p			
Mold (RAPID Petrifilm)	500	cfu/g	100	02/28/23 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	02/28/23 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Listeria spp.	Negative	/5g	-	02/26/23 AOAC 2019.10 ^{p1}			I
Salmonella spp. by PCR	Negative	/10g	-	02/26/23 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: 23-002248/D021.R000
Report Date: 03/01/2023
Purchase Order: andy22123
Received: 02/22/23 10:28 AM

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

Sample ID: LNK-L40-B4
Sample Matrix: Kratom powder
Laboratory ID: 23-002248-0004
Evidence of Cooling: No
Temp: 11.8 °C
Relinquished by: UPS

Sample Results

Mitragynine

Mitragynine + 7-Hydroxymitragynine (S3200)

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	0.0122	%	0.0100	03/01/23 In house method by HPLC-DAD ^p			
Mitragynine	1.07	%	0.0500	03/01/23 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

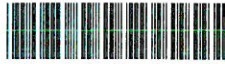
% = Percentage of sample

Approved Signatory

Derrick Tanner
General Manager



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



Report Number: 23-002248/D025.R000
Report Date: 03/01/2023
Purchase Order: andy22123
Received: 02/22/23 10:28 AM

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

Sample ID: LNK-L40-B5
Sample Matrix: Kratom powder
Laboratory ID: 23-002248-0005
Evidence of Cooling: No
Temp: 11.8 °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	02/27/23 AOAC 990.12 (Petrifilm) ^p	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	02/27/23 AOAC 991.14 (Petrifilm) ^p	100	pass	
Total Coliforms	< LOQ	cfu/g	100	02/27/23 AOAC 991.14 (Petrifilm) ^p	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	02/26/23 AOAC 2003.07 ^p			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	02/28/23 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	02/28/23 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Listeria spp.	Negative	/10g	-	02/26/23 AOAC 2019.10 ^{p1}			I
Salmonella spp. by PCR	Negative	/10g	-	02/26/23 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: 23-002248/D027.R000
Report Date: 03/01/2023
Purchase Order: andy22123
Received: 02/22/23 10:28 AM

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

Sample ID: LNK-L40-B5
Sample Matrix: Kratom powder
Laboratory ID: 23-002248-0005
Evidence of Cooling: No
Temp: 11.8 °C
Relinquished by: UPS

Sample Results

Mitragynine

Mitragynine + 7-Hydroxymitragynine (S3200)

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	0.0127	%	0.0100	03/01/23 In house method by HPLC-DAD ^p			
Mitragynine	1.04	%	0.0500	03/01/23 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: 23-002248/D023.R000
Report Date: 03/01/2023
Purchase Order: andy22123
Received: 02/22/23 10:28 AM



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

Sample ID: LNK-L40-B6
Sample Matrix: Kratom powder
Laboratory ID: 23-002248-0006
Evidence of Cooling: No
Temp: 11.8 °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	02/27/23 AOAC 990.12 (Petrifilm) ^p	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	02/27/23 AOAC 991.14 (Petrifilm) ^p	100	pass	
Total Coliforms	< LOQ	cfu/g	100	02/27/23 AOAC 991.14 (Petrifilm) ^p	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	02/26/23 AOAC 2003.07 ^p			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	02/28/23 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	02/28/23 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Listeria spp.	Negative	/5g	-	02/26/23 AOAC 2019.10 ^b ₁			I
Salmonella spp. by PCR	Negative	/10g	-	02/26/23 AOAC 2020.02 ^b 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

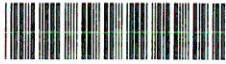
Glossary of Qualifiers

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: 23-002248/D024.R000
Report Date: 03/01/2023
Purchase Order: andy22123
Received: 02/22/23 10:28 AM

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

Sample ID: LNK-L40-B6
Sample Matrix: Kratom powder
Laboratory ID: 23-002248-0006
Evidence of Cooling: No
Temp: 11.8 °C
Relinquished by: UPS

Sample Results

Mitragynine

Mitragynine + 7-Hydroxymitragynine (S3200)

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	0.0130	%	0.0100	03/01/23 In house method by HPLC-DAD ^p			
Mitragynine	0.977	%	0.0500	03/01/23 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

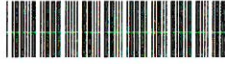
Approved Signatory

Derrick Tanner
General Manager



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

Report Number: 23-002248/D026.R000
Report Date: 03/01/2023
Purchase Order: andy22123
Received: 02/22/23 10:28 AM



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

Sample ID: LNK-L40-B7
Sample Matrix: Kratom powder
Laboratory ID: 23-002248-0007
Evidence of Cooling: No
Temp: 11.8 °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	100	cfu/g	100	02/27/23 AOAC 990.12 (Petrifilm) ^p	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	02/27/23 AOAC 991.14 (Petrifilm) ^p	100	pass	
Total Coliforms	< LOQ	cfu/g	100	02/27/23 AOAC 991.14 (Petrifilm) ^p	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	02/26/23 AOAC 2003.07 ^p			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	02/28/23 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	02/28/23 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Listeria spp.	Negative	/5g	-	02/26/23 AOAC 2019.10 ^{p1}			I
Salmonella spp. by PCR	Negative	/5g	-	02/26/23 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: 23-002248/D006.R000
Report Date: 03/01/2023
Purchase Order: andy22123
Received: 02/22/23 10:28 AM



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

Sample ID: LNK-L40-B7
Sample Matrix: Kratom powder
Laboratory ID: 23-002248-0007
Evidence of Cooling: No
Temp: 11.8 °C
Relinquished by: UPS

Sample Results

Mitragynine

Mitragynine + 7-Hydroxymitragynine (S3200)

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	0.0133	%	0.0100	03/01/23 In house method by HPLC-DAD ^p			
Mitragynine	0.982	%	0.0500	03/01/23 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: 23-002248/D005.R000
Report Date: 03/01/2023
Purchase Order: andy22123
Received: 02/22/23 10:28 AM



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

Sample ID: LNK-L40-B8
Sample Matrix: Kratom powder
Laboratory ID: 23-002248-0008
Evidence of Cooling: No
Temp: 11.8 °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	33,000	cfu/g	1,000	02/27/23 AOAC 990.12 (Petrifilm) ^p	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	02/27/23 AOAC 991.14 (Petrifilm) ^p	100	pass	
Total Coliforms	< LOQ	cfu/g	100	02/27/23 AOAC 991.14 (Petrifilm) ^p	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	02/26/23 AOAC 2003.07 ^p			
Mold (RAPID Petrifilm)	800	cfu/g	100	02/28/23 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	02/28/23 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Listeria spp.	Negative	/5g	-	02/26/23 AOAC 2019.10 ^b ₁			I
Salmonella spp. by PCR	Negative	/5g	-	02/26/23 AOAC 2020.02 ^b 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: 23-002248/D007.R000
Report Date: 03/01/2023
Purchase Order: andy22123
Received: 02/22/23 10:28 AM



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

Sample ID: LNK-L40-B8
Sample Matrix: Kratom powder
Laboratory ID: 23-002248-0008
Evidence of Cooling: No
Temp: 11.8 °C
Relinquished by: UPS

Sample Results

Mitragynine

Mitragynine + 7-Hydroxymitragynine (S3200)

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	0.0130	%	0.0100	03/01/23 In house method by HPLC-DAD ^p			
Mitragynine	1.12	%	0.0500	03/01/23 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

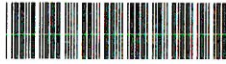
Approved Signatory

Derrick Tanner
General Manager



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

Report Number: 23-002248/D003.R000
 Report Date: 03/01/2023
 Purchase Order: andy22123
 Received: 02/22/23 10:28 AM



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

Sample ID: LNK-L40-B9
Sample Matrix: Kratom powder
Laboratory ID: 23-002248-0009
Evidence of Cooling: No
Temp: 11.8 °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	24,000	cfu/g	1,000	02/27/23 AOAC 990.12 (Petrifilm) ^p	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	02/27/23 AOAC 991.14 (Petrifilm) ^p	100	pass	
Total Coliforms	900	cfu/g	100	02/27/23 AOAC 991.14 (Petrifilm) ^p	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	02/26/23 AOAC 2003.07 ^p			
Mold (RAPID Petrifilm)	7,000	cfu/g	1,000	02/28/23 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	02/28/23 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Listeria spp.	Negative	/10g	-	02/26/23 AOAC 2019.10 ^b ₁			I
Salmonella spp. by PCR	Negative	/10g	-	02/26/23 AOAC 2020.02 ^b 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

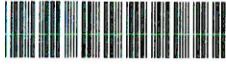
I: Insufficient sample received to meet method requirements.

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



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

Report Number: 23-002248/D004.R000
Report Date: 03/01/2023
Purchase Order: andy22123
Received: 02/22/23 10:28 AM



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

Sample ID: LNK-L40-B9
Sample Matrix: Kratom powder
Laboratory ID: 23-002248-0009
Evidence of Cooling: No
Temp: 11.8 °C
Relinquished by: UPS

Sample Results

Mitragynine

Mitragynine + 7-Hydroxymitragynine (S3200)

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	0.0135	%	0.0100	03/01/23 In house method by HPLC-DAD ^p			
Mitragynine	1.01	%	0.0500	03/01/23 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.

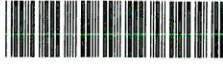
^p = ISO/IEC 17025:2017 accredited method.

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-L40-B10
Sample Matrix: Kratom powder
Laboratory ID: 23-002248-0010
Evidence of Cooling: No
Temp: 11.8 °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	57,000	cfu/g	1,000	02/27/23 AOAC 990.12 (Petrifilm) ^b	10,000,000	pass	
E. coli	< LOQ	cfu/g	100	02/27/23 AOAC 991.14 (Petrifilm) ^b	100	pass	
Total Coliforms	< LOQ	cfu/g	100	02/27/23 AOAC 991.14 (Petrifilm) ^b	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	02/26/23 AOAC 2003.07 ^b			
Mold (RAPID Petrifilm)	10,000	cfu/g	10,000	02/28/23 AOAC 2014.05 (RAPID) ^b	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	02/28/23 AOAC 2014.05 (RAPID) ^b	50,000	pass	
Listeria spp.	Negative	/10g	-	02/26/23 AOAC 2019.10 ^b ₁			I
Salmonella spp. by PCR	Negative	/10g	-	02/26/23 AOAC 2020.02 ^b 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.

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



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

Sample ID: LNK-L40-B10
Sample Matrix: Kratom powder
Laboratory ID: 23-002248-0010
Evidence of Cooling: No
Temp: 11.8 °C
Relinquished by: UPS

Sample Results

Mitragynine

Mitragynine + 7-Hydroxymitragynine (S3200)

Analyte	Result	Units	LOQ	Analized Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	0.0212	%	0.0100	03/01/23 In house method by HPLC-DAD ^p			
Mitragynine	1.17	%	0.0500	03/01/23 In house method by HPLC-DAD ^p			

Abbreviations

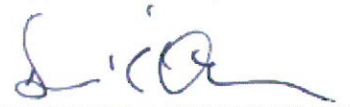
Limit(s) of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

^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: 23-002248/D014.R000
Report Date: 03/01/2023
Purchase Order: andy22123
Received: 02/22/23 10:28 AM



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

Sample ID: LNK-L40-B11
Sample Matrix: Kratom powder
Laboratory ID: 23-002248-0011
Evidence of Cooling: No
Temp: 11.8 °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	35,000	cfu/g	1,000	02/27/23 AOAC 990.12 (Petrifilm) ^p	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	02/27/23 AOAC 991.14 (Petrifilm) ^p	100	pass	
Total Coliforms	600	cfu/g	100	02/27/23 AOAC 991.14 (Petrifilm) ^p	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	02/26/23 AOAC 2003.07 ^p			
Mold (RAPID Petrifilm)	11,000	cfu/g	1,000	02/28/23 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	02/28/23 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Listeria spp.	Negative	/10g	-	02/26/23 AOAC 2019.10 ^{p1}			I
Salmonella spp. by PCR	Negative	/10g	-	02/26/23 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

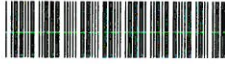
I: Insufficient sample received to meet method requirements.

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



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

Report Number: 23-002248/D010.R000
Report Date: 03/01/2023
Purchase Order: andy22123
Received: 02/22/23 10:28 AM



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

Sample ID: LNK-L40-B11
Sample Matrix: Kratom powder
Laboratory ID: 23-002248-0011
Evidence of Cooling: No
Temp: 11.8 °C
Relinquished by: UPS

Sample Results

Mitragynine

Mitragynine + 7-Hydroxymitragynine (S3200)

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	0.0127	%	0.0100	03/01/23 In house method by HPLC-DAD ^p			
Mitragynine	0.987	%	0.0500	03/01/23 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: 23-002248/D011.R000
Report Date: 03/01/2023
Purchase Order: andy22123
Received: 02/22/23 10:28 AM



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

Sample ID: LNK-L40-B12
Sample Matrix: Kratom powder
Laboratory ID: 23-002248-0012
Evidence of Cooling: No
Temp: 11.8 °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	02/27/23 AOAC 990.12 (Petrifilm) ^p	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	02/27/23 AOAC 991.14 (Petrifilm) ^p	100	pass	
Total Coliforms	< LOQ	cfu/g	100	02/27/23 AOAC 991.14 (Petrifilm) ^p	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	02/26/23 AOAC 2003.07 ^p			
Mold (RAPID Petrifilm)	100	cfu/g	100	02/28/23 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	02/28/23 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Listeria spp.	Negative	/10g	-	02/26/23 AOAC 2019.10 ^{p1}			I
Salmonella spp. by PCR	Negative	/10g	-	02/26/23 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: 23-002248/D009.R000
Report Date: 03/01/2023
Purchase Order: andy22123
Received: 02/22/23 10:28 AM



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

Sample ID: LNK-L40-B12
Sample Matrix: Kratom powder
Laboratory ID: 23-002248-0012
Evidence of Cooling: No
Temp: 11.8 °C
Relinquished by: UPS

Sample Results

Mitragynine

Mitragynine + 7-Hydroxymitragynine (S3200)

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	0.0107	%	0.0100	03/01/23 In house method by HPLC-DAD ^p			
Mitragynine	0.943	%	0.0500	03/01/23 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

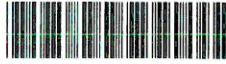
Approved Signatory

Derrick Tanner
General Manager



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

Report Number: 23-002248/D013.R000
Report Date: 03/01/2023
Purchase Order: andy22123
Received: 02/22/23 10:28 AM



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

Sample ID: LNK-L40-B13
Sample Matrix: Kratom powder
Laboratory ID: 23-002248-0013
Evidence of Cooling: No
Temp: 11.8 °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	42,000	cfu/g	1,000	02/27/23 AOAC 990.12 (Petrifilm) ^P	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	02/27/23 AOAC 991.14 (Petrifilm) ^P	100	pass	
Total Coliforms	< LOQ	cfu/g	100	02/27/23 AOAC 991.14 (Petrifilm) ^P	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	02/26/23 AOAC 2003.07 ^P			
Mold (RAPID Petrifilm)	4,000	cfu/g	1,000	02/28/23 AOAC 2014.05 (RAPID) ^P	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	02/28/23 AOAC 2014.05 (RAPID) ^P	50,000	pass	
Listeria spp.	Negative	/10g	-	02/26/23 AOAC 2019.10 ^{P1}			I
Salmonella spp. by PCR	Negative	/10g	-	02/26/23 AOAC 2020.02 ^{P2}	Negative	pass	I

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

Abbreviations

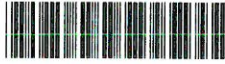
Limit(s) of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

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.



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

Sample ID: LNK-L40-B13
Sample Matrix: Kratom powder
Laboratory ID: 23-002248-0013
Evidence of Cooling: No
Temp: 11.8 °C
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	03/01/23 In house method by HPLC-DAD ^p			
Mitragynine	1.24	%	0.0500	03/01/23 In house method by HPLC-DAD ^p			

Abbreviations

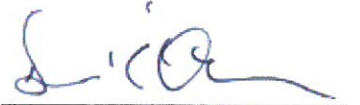
Limit(s) of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

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

Units of Measure

% = Percentage of sample

Approved Signatory



Derrick Tanner
General Manager