



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

Report Number: 24-002019/D001.R000
Report Date: 02/19/2024
Purchase Order: andy022124
Received: 02/22/24 11:24 AM



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

Sample ID: LNK-L47-B1
Sample Matrix: Kratom powder
Laboratory ID: 24-002019-0001
Evidence of Cooling: No
Temp: 17.1 °C

Sample Results

Metals

Heavy Metals Profile K

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Arsenic	0.225	mg/kg	0.0186	02/27/24 AOAC 2013.06 (mod.) ^p	1.50	pass	
Cadmium	0.0338	mg/kg	0.0186	02/27/24 AOAC 2013.06 (mod.) ^p	0.500	pass	
Lead	0.728	mg/kg	0.0186	02/27/24 AOAC 2013.06 (mod.) ^p	1.00	pass	
Mercury	0.0171	mg/kg	0.00930	02/27/24 AOAC 2013.06 (mod.) ^p	0.200	pass	
Nickel	1.90	mg/kg	0.0372	02/27/24 AOAC 2013.06 (mod.) ^p	20.0	pass	

Microbiology

Kratom Micro Profile

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	800	cfu/g	100	02/25/24 AOAC 990.12 (Petrifilm) ^p	10,000,000	pass	
E. coli	< LOQ	cfu/g	100	02/25/24 AOAC 991.14 (Petrifilm) ^p	100	pass	
Total Coliforms	< LOQ	cfu/g	100	02/25/24 AOAC 991.14 (Petrifilm) ^p	10,000	pass	
Enterobacteriaceae	< LOQ	cfu/g	100	02/24/24 AOAC 2003.01 ^p	10,000	pass	
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	02/26/24 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	02/26/24 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Salmonella spp. by PCR	Negative	/25g	-	02/24/24 AOAC 2020.02 ^{p1}	Negative	pass	

1) 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 (10g daily consu

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



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

Report Number: 24-001563/D001.R000
Report Date: 02/19/2024
Purchase Order: andy02924
Received: 02/12/24 02:39 PM



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

Sample ID: LNK-L47-B1
Sample Matrix: Kratom powder
Laboratory ID: 24-001563-0001
Evidence of Cooling: No
Temp: 16.7 °C

Sample Results

Mitragynine

Kratom Quality & Safety Expanded

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	0.0276	%	0.0100	02/15/24 In house method by HPLC-DAD [Ⓟ]			
Isorhynchophylline	< LOQ	%	0.0500	02/15/24 In house method by HPLC-DAD [Ⓟ]			
Mitragynine	1.16	%	0.0500	02/15/24 In house method by HPLC-DAD [Ⓟ]			
Mitraphylline	< LOQ	%	0.0500	02/15/24 In house method by HPLC-DAD [Ⓟ]			
Paynantheine	0.232	%	0.0500	02/15/24 In house method by HPLC-DAD [Ⓟ]			
Speciociliatine	0.215	%	0.0500	02/15/24 In house method by HPLC-DAD [Ⓟ]			
Speciogynine	0.142	%	0.0500	02/15/24 In house method by HPLC-DAD [Ⓟ]			
Total Alkaloids	1.78	%	-	02/19/24 In house method by HPLC-DAD [Ⓟ]			

Test results relate only to the parameters tested and to the samples as received by the laboratory. Test results meet all requirements of Columbia Laboratories quality assurance plan unless otherwise noted. This report shall not be reproduced, except in full, without the written consent of this laboratory. Samples will be retained for a maximum of 30 days from the receipt date unless prior arrangements have been made.



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

Report Number: 24-001563/D001.R000
Report Date: 02/19/2024
Purchase Order: andy02924
Received: 02/12/24 02:39 PM



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

Sample ID: LNK-L47-B2
Sample Matrix: Kratom powder
Laboratory ID: 24-001563-0002
Evidence of Cooling: No
Temp: 16.7 °C

Sample Results

Microbiology

Micro Profile L

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	1,800	cfu/g	100	02/15/24 AOAC 990.12 (Petrifilm) ^P	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	02/15/24 AOAC 991.14 (Petrifilm) ^P	100	pass	
Total Coliforms	< LOQ	cfu/g	100	02/15/24 AOAC 991.14 (Petrifilm) ^P	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	02/14/24 AOAC 2003.07 ^P			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	02/16/24 AOAC 2014.05 (RAPID) ^P	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	02/16/24 AOAC 2014.05 (RAPID) ^P	50,000	pass	
Listeria spp.	Negative	/25g	-	02/14/24 AOAC 2019.10 ^P ₁			
Salmonella spp. by PCR	Negative	/25g	-	02/14/24 AOAC 2020.02 ^P ₂	Negative	pass	

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

Mitragynine

Mitragynine + 7-Hydroxymitragynine

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	0.0349	%	0.0100	02/15/24 In house method by HPLC-DAD ^P			
Mitragynine	1.18	%	0.0500	02/15/24 In house method by HPLC-DAD ^P			



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

Report Number: 24-002525/D002.R000
Report Date: 03/13/2024
Purchase Order: andy030524
Received: 03/06/24 11:31 AM



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

Sample ID: LNK-L47-B3
Sample Matrix: Kratom powder
Laboratory ID: 24-002525-0001
Evidence of Cooling: No
Temp: 13.1 °C

Sample Results

Microbiology

Micro Profile L

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	2,000	cfu/g	100	03/09/24 AOAC 990.12 (Petrifilm) ^p	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	03/09/24 AOAC 991.14 (Petrifilm) ^p	100	pass	
Total Coliforms	< LOQ	cfu/g	100	03/09/24 AOAC 991.14 (Petrifilm) ^p	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	03/08/24 AOAC 2003.07 ^p			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	03/10/24 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	03/10/24 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Listeria spp.	Negative	/25g	-	03/08/24 AOAC 2019.10 ^{p1}			
Salmonella spp. by PCR	Negative	/25g	-	03/08/24 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 (10g daily consu

^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: 24-002525/D001.R000
Report Date: 03/13/2024
Purchase Order: andy030524
Received: 03/06/24 11:31 AM



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

Sample ID: LNK-L47-B3
Sample Matrix: Kratom powder
Laboratory ID: 24-002525-0001-01
Evidence of Cooling: No
Temp: 13.1 °C
Serving Size #1: 2 g

Sample Results

Mitragynine

Mitragynine + 7-Hydroxymitragynine

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine	0.0344	%	0.0100	03/07/24	In house method by HPLC-DAD ^P	
Mitragynine	1.47	%	0.0500	03/07/24	In house method by HPLC-DAD ^P	

Mitragynine per serving

Mitragynine (+7OH) Serving Size 1

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine per Serving Size #1	0.688	mg/serving	0.200	03/13/24	In house method by HPLC-DAD ^P	
Mitragynine per Serving Size #1	29.4	mg/serving	1.00	03/13/24	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

g = g

mg/serving = Milligram per serving size 1

% = Percentage of sample

Approved Signatory

Derrick Tanner
 General Manager



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

Report Number: 24-002525/D004.R000
Report Date: 03/13/2024
Purchase Order: andy030524
Received: 03/06/24 11:31 AM



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

Sample ID: LNK-L47-B4
Sample Matrix: Kratom powder
Laboratory ID: 24-002525-0002
Evidence of Cooling: No
Temp: 13.1 °C

Sample Results

Microbiology

Micro Profile L

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	5,600	cfu/g	100	03/09/24 AOAC 990.12 (Petrifilm) ^p	10,000,000	pass	
E. coli	< LOQ	cfu/g	100	03/09/24 AOAC 991.14 (Petrifilm) ^p	100	pass	
Total Coliforms	< LOQ	cfu/g	100	03/09/24 AOAC 991.14 (Petrifilm) ^p	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	03/08/24 AOAC 2003.07 ^p			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	03/10/24 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	03/10/24 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Listeria spp.	Negative	/25g	-	03/08/24 AOAC 2019.10 ^{p1}			
Salmonella spp. by PCR	Negative	/25g	-	03/08/24 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 (10g daily consu

^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: 24-002525/D003.R000
Report Date: 03/13/2024
Purchase Order: andy030524
Received: 03/06/24 11:31 AM



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

Sample ID: LNK-L47-B4
Sample Matrix: Kratom powder
Laboratory ID: 24-002525-0002-01
Evidence of Cooling: No
Temp: 13.1 °C
Serving Size #1: 2 g

Sample Results

Mitragynine

Mitragynine + 7-Hydroxymitragynine

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine	0.0378	%	0.0100	03/07/24	In house method by HPLC-DAD ^p	
Mitragynine	1.60	%	0.0500	03/07/24	In house method by HPLC-DAD ^p	

Mitragynine per serving

Mitragynine (+7OH) Serving Size 1

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine per Serving Size #1	0.756	mg/serving	0.200	03/13/24	In house method by HPLC-DAD ^p	
Mitragynine per Serving Size #1	32.0	mg/serving	1.00	03/13/24	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

g = g
 mg/serving = Milligram per serving size 1
 % = Percentage of sample

Approved Signatory

Derrick Tanner
 General Manager



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

Report Number: 24-002525/D005.R000
Report Date: 03/13/2024
Purchase Order: andy030524
Received: 03/06/24 11:31 AM



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

Sample ID: LNK-L47-B5
Sample Matrix: Kratom powder
Laboratory ID: 24-002525-0003
Evidence of Cooling: No
Temp: 13.1 °C

Sample Results

Microbiology

Micro Profile L

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	2,100	cfu/g	100	03/09/24 AOAC 990.12 (Petrifilm) ^p	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	03/09/24 AOAC 991.14 (Petrifilm) ^p	100	pass	
Total Coliforms	< LOQ	cfu/g	100	03/09/24 AOAC 991.14 (Petrifilm) ^p	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	03/08/24 AOAC 2003.07 ^p			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	03/10/24 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	03/10/24 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Listeria spp.	Negative	/25g	-	03/08/24 AOAC 2019.10 ^{p1}			
Salmonella spp. by PCR	Negative	/25g	-	03/08/24 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 (10g daily consu

^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: 24-002525/D006.R000
Report Date: 03/13/2024
Purchase Order: andy030524
Received: 03/06/24 11:31 AM



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

Sample ID: LNK-L47-B5
Sample Matrix: Kratom powder
Laboratory ID: 24-002525-0003-01
Evidence of Cooling: No
Temp: 13.1 °C
Serving Size #1: 2 g

Sample Results

Mitragynine

Mitragynine + 7-Hydroxymitragynine

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine	0.0383	%	0.0100	03/07/24	In house method by HPLC-DAD ^P	
Mitragynine	1.46	%	0.0500	03/07/24	In house method by HPLC-DAD ^P	

Mitragynine per serving

Mitragynine (+7OH) Serving Size 1

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine per Serving Size #1	0.766	mg/serving	0.200	03/13/24	In house method by HPLC-DAD ^P	
Mitragynine per Serving Size #1	29.2	mg/serving	1.00	03/13/24	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

g = g

mg/serving = Milligram per serving size 1

% = Percentage of sample

Approved Signatory

Derrick Tanner
 General Manager



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

Report Number: 24-002525/D007.R000
Report Date: 03/13/2024
Purchase Order: andy030524
Received: 03/06/24 11:31 AM



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

Sample ID: LNK-L47-B6
Sample Matrix: Kratom powder
Laboratory ID: 24-002525-0004
Evidence of Cooling: No
Temp: 13.1 °C

Sample Results

Microbiology

Micro Profile L

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	1,700	cfu/g	100	03/09/24 AOAC 990.12 (Petrifilm) ^p	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	03/09/24 AOAC 991.14 (Petrifilm) ^p	100	pass	
Total Coliforms	< LOQ	cfu/g	100	03/09/24 AOAC 991.14 (Petrifilm) ^p	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	03/08/24 AOAC 2003.07 ^p			
Mold (RAPID Petrifilm)	100	cfu/g	100	03/10/24 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	03/10/24 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Listeria spp.	Negative	/25g	-	03/08/24 AOAC 2019.10 ^{p1}			
Salmonella spp. by PCR	Negative	/25g	-	03/08/24 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 (10g daily consu

^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: 24-002525/D008.R000
Report Date: 03/13/2024
Purchase Order: andy030524
Received: 03/06/24 11:31 AM



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

Sample ID: LNK-L47-B6
Sample Matrix: Kratom powder
Laboratory ID: 24-002525-0004-01
Evidence of Cooling: No
Temp: 13.1 °C
Serving Size #1: 2 g

Sample Results

Mitragynine

Mitragynine + 7-Hydroxymitragynine

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine	0.0427	%	0.0100	03/07/24	In house method by HPLC-DAD ^p	
Mitragynine	1.56	%	0.0500	03/07/24	In house method by HPLC-DAD ^p	

Mitragynine per serving

Mitragynine (+7OH) Serving Size 1

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine per Serving Size #1	0.854	mg/serving	0.200	03/13/24	In house method by HPLC-DAD ^p	
Mitragynine per Serving Size #1	31.2	mg/serving	1.00	03/13/24	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

g = g
 mg/serving = Milligram per serving size 1
 % = Percentage of sample

Approved Signatory

Derrick Tanner
 General Manager



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

Report Number: 24-001563/D001.R000
Report Date: 02/19/2024
Purchase Order: andy02924
Received: 02/12/24 02:39 PM



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

Sample ID: LNK-L47-B7
Sample Matrix: Kratom powder
Laboratory ID: 24-001563-0007
Evidence of Cooling: No
Temp: 16.7 °C

Sample Results

Microbiology

Micro Profile L

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	2,700	cfu/g	100	02/15/24 AOAC 990.12 (Petrifilm) ^P	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	02/15/24 AOAC 991.14 (Petrifilm) ^P	100	pass	
Total Coliforms	< LOQ	cfu/g	100	02/15/24 AOAC 991.14 (Petrifilm) ^P	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	02/14/24 AOAC 2003.07 ^P			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	02/16/24 AOAC 2014.05 (RAPID) ^P	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	02/16/24 AOAC 2014.05 (RAPID) ^P	50,000	pass	
Listeria spp.	Negative	/25g	-	02/14/24 AOAC 2019.10 ^P ₁			
Salmonella spp. by PCR	Negative	/25g	-	02/14/24 AOAC 2020.02 ^P ₂	Negative	pass	

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

Mitragynine

Mitragynine + 7-Hydroxymitragynine

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	0.0378	%	0.0100	02/15/24 In house method by HPLC-DAD ^P			
Mitragynine	1.21	%	0.0500	02/15/24 In house method by HPLC-DAD ^P			



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

Report Number: 24-001563/D001.R000
Report Date: 02/19/2024
Purchase Order: andy02924
Received: 02/12/24 02:39 PM



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

Sample ID: LNK-L47-B8
Sample Matrix: Kratom powder
Laboratory ID: 24-001563-0008
Evidence of Cooling: No
Temp: 16.7 °C

Sample Results

Microbiology

Micro Profile L

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	400	cfu/g	100	02/15/24 AOAC 990.12 (Petrifilm) ^p	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	02/15/24 AOAC 991.14 (Petrifilm) ^p	100	pass	
Total Coliforms	< LOQ	cfu/g	100	02/15/24 AOAC 991.14 (Petrifilm) ^p	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	02/14/24 AOAC 2003.07 ^p			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	02/16/24 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	02/16/24 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Listeria spp.	Negative	/25g	-	02/14/24 AOAC 2019.10 ^{p1}			
Salmonella spp. by PCR	Negative	/25g	-	02/14/24 AOAC 2020.02 ^{p2}	Negative	pass	

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

Mitragynine

Mitragynine + 7-Hydroxymitragynine

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	0.0404	%	0.0100	02/15/24 In house method by HPLC-DAD ^p			
Mitragynine	1.22	%	0.0500	02/15/24 In house method by HPLC-DAD ^p			

Test results relate only to the parameters tested and to the samples as received by the laboratory. Test results meet all requirements of Columbia Laboratories quality assurance plan unless otherwise noted. This report shall not be reproduced, except in full, without the written consent of this laboratory. Samples will be retained for a maximum of 30 days from the receipt date unless prior arrangements have been made.



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

Report Number: 24-001563/D001.R000
Report Date: 02/19/2024
Purchase Order: andy02924
Received: 02/12/24 02:39 PM



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

Sample ID: LNK-L47-B9
Sample Matrix: Kratom powder
Laboratory ID: 24-001563-0009
Evidence of Cooling: No
Temp: 16.7 °C

Sample Results

Microbiology

Micro Profile L

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	1,900	cfu/g	100	02/15/24 AOAC 990.12 (Petrifilm) ^p	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	02/15/24 AOAC 991.14 (Petrifilm) ^p	100	pass	
Total Coliforms	< LOQ	cfu/g	100	02/15/24 AOAC 991.14 (Petrifilm) ^p	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	02/14/24 AOAC 2003.07 ^p			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	02/16/24 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	02/16/24 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Listeria spp.	Negative	/25g	-	02/14/24 AOAC 2019.10 ^{p1}			
Salmonella spp. by PCR	Negative	/25g	-	02/14/24 AOAC 2020.02 ^{p2}	Negative	pass	

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

Mitragynine

Mitragynine + 7-Hydroxymitragynine

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	0.0386	%	0.0100	02/15/24 In house method by HPLC-DAD ^p			
Mitragynine	1.21	%	0.0500	02/15/24 In house method by HPLC-DAD ^p			



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

Report Number: 24-001563/D001.R000
Report Date: 02/19/2024
Purchase Order: andy02924
Received: 02/12/24 02:39 PM



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

Sample ID: LNK-L47-B10
Sample Matrix: Kratom powder
Laboratory ID: 24-001563-0010
Evidence of Cooling: No
Temp: 16.7 °C

Sample Results

Microbiology

Micro Profile L

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	11,400	cfu/g	100	02/15/24 AOAC 990.12 (Petrifilm) ^p	10,000,000	pass	
E. coli	< LOQ	cfu/g	100	02/15/24 AOAC 991.14 (Petrifilm) ^p	100	pass	
Total Coliforms	< LOQ	cfu/g	100	02/15/24 AOAC 991.14 (Petrifilm) ^p	10,000	pass	
Staphylococcus aureus	< LOQ	cfu/g	100	02/14/24 AOAC 2003.07 ^p			
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	02/16/24 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	02/16/24 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Listeria spp.	Negative	/25g	-	02/14/24 AOAC 2019.10 ^{p1}			
Salmonella spp. by PCR	Negative	/25g	-	02/14/24 AOAC 2020.02 ^{p2}	Negative	pass	

1) GENE-UP® Assay

2) GENE-UP® Assay

Mitragynine

Mitragynine + 7-Hydroxymitragynine

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	0.0309	%	0.0100	02/15/24 In house method by HPLC-DAD ^p			
Mitragynine	1.15	%	0.0500	02/15/24 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.

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

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