



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

**Report Number:** 22-002383/D031.R000  
**Report Date:** 03/09/2022  
**Purchase Order:** andy3122  
**Received:** 03/02/22 11:41 AM



**Customer:** Lamp Nutraceutical

**Sample ID:** LNK-L30-B1  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 22-002383-0001-01  
**Evidence of Cooling:** No  
**Temp:** 20 °C  
**Relinquished by:** UPS

**Sample Results**

Microbiology						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		03/03/22	AOAC 2020.02 <sub>1</sub>	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E. coli	< LOQ	cfu/g	100	03/05/22	AOAC 991.14 (Petrifilm)	
Total Coliforms	2,600	cfu/g	100	03/05/22	AOAC 991.14 (Petrifilm)	

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.

**Units of Measure**

/25g = Per 25g

cfu/g = Colony forming units per gram

Approved Signatory

Derrick Tanner  
 General Manager



12423 NE Whitaker Way  
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 503-254-1794

**Report Number:** 22-002383/D032.R000  
**Report Date:** 03/09/2022  
**Purchase Order:** andy3122  
**Received:** 03/02/22 11:41 AM



**Customer:** Lamp Nutraceutical

**Sample ID:** LNK-L30-B1  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 22-002383-0001-00  
**Evidence of Cooling:** No  
**Temp:** 20 °C  
**Relinquished by:** UPS

**Sample Results**

**Mitragynine**

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine <sup>†</sup>	0.0144	%	0.0100	03/03/22	In house method by HPLC-DAD	
Mitragynine <sup>†</sup>	1.05	%	0.0500	03/03/22	In house method by HPLC-DAD	

**Abbreviations**

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

<sup>†</sup> = Analyte not ISO accredited.

**Units of Measure**

% = Percentage of sample

Approved Signatory

Derrick Tanner  
 General Manager

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



12423 NE Whitaker Way  
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**Report Number:** 22-002383/D033.R000  
**Report Date:** 03/09/2022  
**Purchase Order:** andy3122  
**Received:** 03/02/22 11:41 AM



**Customer:** Lamp Nutraceutical

**Sample ID:** LNK-L30-B2  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 22-002383-0002-01  
**Evidence of Cooling:** No  
**Temp:** 20 °C  
**Relinquished by:** UPS

**Sample Results**

**Microbiology**

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		03/03/22	AOAC 2020.02 <sub>1</sub>	
<b>E. coli/Coliform Count (EC) Plate</b>						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	03/05/22	AOAC 991.14 (Petrifilm)	
Total Coliforms	3,900	cfu/g	100	03/05/22	AOAC 991.14 (Petrifilm)	

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.

**Units of Measure**

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

Approved Signatory

Derrick Tanner  
 General Manager

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**Report Number:** 22-002383/D034.R000  
**Report Date:** 03/09/2022  
**Purchase Order:** andy3122  
**Received:** 03/02/22 11:41 AM



**Customer:** Lamp Nutraceutical

**Sample ID:** LNK-L30-B2  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 22-002383-0002-00  
**Evidence of Cooling:** No  
**Temp:** 20 °C  
**Relinquished by:** UPS

### Sample Results

#### Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine†	0.0142	%	0.0100	03/03/22	In house method by HPLC-DAD	
Mitragynine†	0.791	%	0.0500	03/03/22	In house method by HPLC-DAD	

#### Abbreviations

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

† = Analyte not ISO accredited.

#### 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:** 22-002383/D036.R000  
**Report Date:** 03/09/2022  
**Purchase Order:** andy3122  
**Received:** 03/02/22 11:41 AM



**Customer:** Lamp Nutraceutical

**Sample ID:** LNK-L30-B3  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 22-002383-0003-01  
**Evidence of Cooling:** No  
**Temp:** 20 °C  
**Relinquished by:** UPS

**Sample Results**

**Microbiology**

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		03/03/22	AOAC 2020.02 <sub>1</sub>	
<b>E. coli/Coliform Count (EC) Plate</b>						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	03/05/22	AOAC 991.14 (Petrifilm)	
Total Coliforms	2,000	cfu/g	100	03/05/22	AOAC 991.14 (Petrifilm)	

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.

**Units of Measure**

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

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Derrick Tanner  
 General Manager

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12423 NE Whitaker Way  
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**Report Number:** 22-002383/D037.R000  
**Report Date:** 03/09/2022  
**Purchase Order:** andy3122  
**Received:** 03/02/22 11:41 AM



**Customer:** Lamp Nutraceutical

**Sample ID:** LNK-L30-B3  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 22-002383-0003-00  
**Evidence of Cooling:** No  
**Temp:** 20 °C  
**Relinquished by:** UPS

### Sample Results

#### Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine <sup>†</sup>	0.0170	%	0.0100	03/03/22	In house method by HPLC-DAD	
Mitragynine <sup>†</sup>	0.759	%	0.0500	03/03/22	In house method by HPLC-DAD	

#### Abbreviations

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<sup>†</sup> = Analyte not ISO accredited.

#### Units of Measure

% = Percentage of sample

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Derrick Tanner  
General Manager



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**Report Number:** 22-002383/D035.R000  
**Report Date:** 03/09/2022  
**Purchase Order:** andy3122  
**Received:** 03/02/22 11:41 AM



**Customer:** Lamp Nutraceutical

**Sample ID:** LNK-L30-B4  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 22-002383-0004-01  
**Evidence of Cooling:** No  
**Temp:** 20 °C  
**Relinquished by:** UPS

**Sample Results**

**Microbiology**

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		03/03/22	AOAC 2020.02 <sub>1</sub>	
<b>E. coli/Coliform Count (EC) Plate</b>						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	03/05/22	AOAC 991.14 (Petrifilm)	
Total Coliforms	2,500	cfu/g	100	03/05/22	AOAC 991.14 (Petrifilm)	

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.

**Units of Measure**

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

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 General Manager

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**Report Number:** 22-002383/D029.R000  
**Report Date:** 03/09/2022  
**Purchase Order:** andy3122  
**Received:** 03/02/22 11:41 AM



**Customer:** Lamp Nutraceutical

**Sample ID:** LNK-L30-B4  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 22-002383-0004-00  
**Evidence of Cooling:** No  
**Temp:** 20 °C  
**Relinquished by:** UPS

### Sample Results

#### Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine†	0.0217	%	0.0100	03/03/22	In house method by HPLC-DAD	
Mitragynine†	0.946	%	0.0500	03/03/22	In house method by HPLC-DAD	

#### Abbreviations

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† = Analyte not ISO accredited.

#### Units of Measure

% = Percentage of sample

Approved Signatory

Derrick Tanner  
General Manager



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

**Report Number:** 22-002383/D026.R000  
**Report Date:** 03/09/2022  
**Purchase Order:** andy3122  
**Received:** 03/02/22 11:41 AM



**Customer:** Lamp Nutraceutical

**Sample ID:** LNK-L30-B5  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 22-002383-0005-01  
**Evidence of Cooling:** No  
**Temp:** 20 °C  
**Relinquished by:** UPS

**Sample Results**

**Microbiology**

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		03/03/22	AOAC 2020.02 <sub>1</sub>	
<b>E. coli/Coliform Count (EC) Plate</b>						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	03/05/22	AOAC 991.14 (Petrifilm)	
Total Coliforms	2,100	cfu/g	100	03/05/22	AOAC 991.14 (Petrifilm)	

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.

**Units of Measure**

/25g = Per 25g

cfu/g = Colony forming units per gram

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 General Manager

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12423 NE Whitaker Way  
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**Report Number:** 22-002383/D028.R000  
**Report Date:** 03/09/2022  
**Purchase Order:** andy3122  
**Received:** 03/02/22 11:41 AM



**Customer:** Lamp Nutraceutical

**Sample ID:** LNK-L30-B5  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 22-002383-0005-00  
**Evidence of Cooling:** No  
**Temp:** 20 °C  
**Relinquished by:** UPS

**Sample Results**  
**Mitragynine**

Mitragynine + 7-Hydroxymitragynine (S3200)						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine†	0.0150	%	0.0100	03/03/22	In house method by HPLC-DAD	
Mitragynine†	0.869	%	0.0500	03/03/22	In house method by HPLC-DAD	

**Abbreviations**

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† = Analyte not ISO accredited.

**Units of Measure**

% = Percentage of sample

Approved Signatory

Derrick Tanner  
 General Manager



12423 NE Whitaker Way  
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 503-254-1794

**Report Number:** 22-002383/D046.R000  
**Report Date:** 03/09/2022  
**Purchase Order:** andy3122  
**Received:** 03/02/22 11:41 AM



**Customer:** Lamp Nutraceutical

**Sample ID:** LNK-L30-B6  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 22-002383-0006-01  
**Evidence of Cooling:** No  
**Temp:** 20 °C  
**Relinquished by:** UPS

**Sample Results**

Microbiology						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		03/03/22	AOAC 2020.02 <sub>1</sub>	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	03/05/22	AOAC 991.14 (Petrifilm)	
Total Coliforms	< LOQ	cfu/g	100	03/05/22	AOAC 991.14 (Petrifilm)	

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.

**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:** 22-002383/D025.R000  
**Report Date:** 03/09/2022  
**Purchase Order:** andy3122  
**Received:** 03/02/22 11:41 AM



**Customer:** Lamp Nutraceutical

**Sample ID:** LNK-L30-B6  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 22-002383-0006-00  
**Evidence of Cooling:** No  
**Temp:** 20 °C  
**Relinquished by:** UPS

**Sample Results**

**Mitragynine**

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine†	0.0178	%	0.0100	03/03/22	In house method by HPLC-DAD	
Mitragynine†	0.924	%	0.0500	03/03/22	In house method by HPLC-DAD	

**Abbreviations**

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† = Analyte not ISO accredited.

**Units of Measure**

% = Percentage of sample

Approved Signatory

Derrick Tanner  
General Manager



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

**Report Number:** 22-002383/D008.R000  
**Report Date:** 03/09/2022  
**Purchase Order:** andy3122  
**Received:** 03/02/22 11:41 AM



**Customer:** Lamp Nutraceutical

**Sample ID:** LNK-L30-B7  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 22-002383-0007-01  
**Evidence of Cooling:** No  
**Temp:** 20 °C  
**Relinquished by:** UPS

**Sample Results**

**Microbiology**

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		03/03/22	AOAC 2020.02 <sub>1</sub>	
<b>E. coli/Coliform Count (EC) Plate</b>						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	03/05/22	AOAC 991.14 (Petrifilm)	
Total Coliforms	5,200	cfu/g	100	03/05/22	AOAC 991.14 (Petrifilm)	

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.

**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:** 22-002383/D027.R000  
**Report Date:** 03/09/2022  
**Purchase Order:** andy3122  
**Received:** 03/02/22 11:41 AM



**Customer:** Lamp Nutraceutical

**Sample ID:** LNK-L30-B7  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 22-002383-0007-00  
**Evidence of Cooling:** No  
**Temp:** 20 °C  
**Relinquished by:** UPS

**Sample Results**

**Mitragynine**

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine†	0.0125	%	0.0100	03/03/22	In house method by HPLC-DAD	
Mitragynine†	0.854	%	0.0500	03/03/22	In house method by HPLC-DAD	

**Abbreviations**

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† = Analyte not ISO accredited.

**Units of Measure**

% = Percentage of sample

Approved Signatory

Derrick Tanner  
 General Manager



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

**Report Number:** 22-002383/D006.R000  
**Report Date:** 03/09/2022  
**Purchase Order:** andy3122  
**Received:** 03/02/22 11:41 AM



**Customer:** Lamp Nutraceutical

**Sample ID:** LNK-L30-B8  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 22-002383-0008-01  
**Evidence of Cooling:** No  
**Temp:** 20 °C  
**Relinquished by:** UPS

**Sample Results**

**Microbiology**

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		03/03/22	AOAC 2020.02 <sub>1</sub>	
<b>E. coli/Coliform Count (EC) Plate</b>						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E. coli	< LOQ	cfu/g	100	03/05/22	AOAC 991.14 (Petrifilm)	
Total Coliforms	1,400	cfu/g	100	03/05/22	AOAC 991.14 (Petrifilm)	

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.

**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:** 22-002891/D002.R000  
**Report Date:** 03/18/2022  
**Purchase Order:** andy31122  
**Received:** 03/14/22 10:47 AM



**Customer:** Lamp Nutraceutical

**Sample ID:** LNK-L30-B8  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 22-002891-0005-00  
**Evidence of Cooling:** No  
**Temp:** 17 °C  
**Relinquished by:** UPS

### Sample Results

#### Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine <sup>1</sup>	< LOQ	%	0.0100	03/16/22	In house method by HPLC-DAD	
Mitragynine <sup>1</sup>	0.835	%	0.0500	03/16/22	In house method by HPLC-DAD	



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

**Report Number:** 22-002383/D005.R000  
**Report Date:** 03/09/2022  
**Purchase Order:** andy3122  
**Received:** 03/02/22 11:41 AM



**Customer:** Lamp Nutraceutical

**Sample ID:** LNK-L30-B9  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 22-002383-0009-01  
**Evidence of Cooling:** No  
**Temp:** 20 °C  
**Relinquished by:** UPS

**Sample Results**

**Microbiology**

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		03/03/22	AOAC 2020.02 <sub>1</sub>	
<b>E. coli/Coliform Count (EC) Plate</b>						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	03/05/22	AOAC 991.14 (Petrifilm)	
Total Coliforms	1,100	cfu/g	100	03/05/22	AOAC 991.14 (Petrifilm)	

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.

**Units of Measure**

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

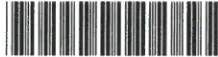
Approved Signatory

Derrick Tanner  
 General Manager



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

**Report Number:** 22-002891/D002.R000  
**Report Date:** 03/18/2022  
**Purchase Order:** andy31122  
**Received:** 03/14/22 10:47 AM



**Customer:** Lamp Nutraceutical

**Sample ID:** LNK-L30-B9  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 22-002891-0006-00  
**Evidence of Cooling:** No  
**Temp:** 17 °C  
**Relinquished by:** UPS

**Sample Results**

**Mitragynine**

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine <sup>†</sup>	< LOQ	%	0.0100	03/16/22	In house method by HPLC-DAD	
Mitragynine <sup>†</sup>	1.08	%	0.0500	03/16/22	In house method by HPLC-DAD	

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**Report Number:** 22-002383/D041.R000  
**Report Date:** 03/09/2022  
**Purchase Order:** andy3122  
**Received:** 03/02/22 11:41 AM



**Customer:** Lamp Nutraceutical

**Sample ID:** LNK-L30-B10  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 22-002383-0010-01  
**Evidence of Cooling:** No  
**Temp:** 20 °C  
**Relinquished by:** UPS

**Sample Results**

**Microbiology**

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		03/03/22	AOAC 2020.02 <sub>1</sub>	
<b>E. coli/Coliform Count (EC) Plate</b>						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E. coli	< LOQ	cfu/g	100	03/05/22	AOAC 991.14 (Petrifilm)	
Total Coliforms	2,300	cfu/g	100	03/05/22	AOAC 991.14 (Petrifilm)	

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.

**Units of Measure**

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

Approved Signatory

Derrick Tanner  
 General Manager

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



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

**Report Number:** 22-002891/D002.R000  
**Report Date:** 03/18/2022  
**Purchase Order:** andy31122  
**Received:** 03/14/22 10:47 AM



**Customer:** Lamp Nutraceutical

**Sample ID:** LNK-L30-B10  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 22-002891-0007-00  
**Evidence of Cooling:** No  
**Temp:** 17 °C  
**Relinquished by:** UPS

**Sample Results**

**Mitragynine**

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine <sup>1</sup>	0.0104	%	0.0100	03/16/22	In house method by HPLC-DAD	
Mitragynine <sup>1</sup>	1.15	%	0.0500	03/16/22	In house method by HPLC-DAD	

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

**Report Number:** 22-002383/D038.R000  
**Report Date:** 03/09/2022  
**Purchase Order:** andy3122  
**Received:** 03/02/22 11:41 AM



**Customer:** Lamp Nutraceutical

**Sample ID:** LNK-L30-B11  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 22-002383-0011-01  
**Evidence of Cooling:** No  
**Temp:** 20 °C  
**Relinquished by:** UPS

**Sample Results**

**Microbiology**

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		03/03/22	AOAC 2020.02 <sub>1</sub>	
<b>E. coli/Coliform Count (EC) Plate</b>						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	03/05/22	AOAC 991.14 (Petrifilm)	
Total Coliforms	100	cfu/g	100	03/05/22	AOAC 991.14 (Petrifilm)	

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.

**Units of Measure**

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

Approved Signatory

Derrick Tanner  
 General Manager

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



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

**Report Number:** 22-002383/D039.R000  
**Report Date:** 03/09/2022  
**Purchase Order:** andy3122  
**Received:** 03/02/22 11:41 AM



**Customer:** Lamp Nutraceutical

**Sample ID:** LNK-L30-B11  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 22-002383-0011-00  
**Evidence of Cooling:** No  
**Temp:** 20 °C  
**Relinquished by:** UPS

**Sample Results**

Mitragnine						
Mitragnine + 7-Hydroxymitragnine (S3200)						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragnine†	0.0100	%	0.0100	03/04/22	In house method by HPLC-DAD	
Mitragnine†	1.26	%	0.0500	03/04/22	In house method by HPLC-DAD	

**Abbreviations**

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

† = Analyte not ISO accredited.

**Units of Measure**

% = Percentage of sample

Approved Signatory

Derrick Tanner  
 General Manager



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

**Report Number:** 22-002383/D043.R000  
**Report Date:** 03/09/2022  
**Purchase Order:** andy3122  
**Received:** 03/02/22 11:41 AM



**Customer:** Lamp Nutraceutical

**Sample ID:** LNK-L30-B12  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 22-002383-0012-01  
**Evidence of Cooling:** No  
**Temp:** 20 °C  
**Relinquished by:** UPS

**Sample Results**

Microbiology						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		03/03/22	AOAC 2020.02 <sub>1</sub>	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	03/05/22	AOAC 991.14 (Petrifilm)	
Total Coliforms	400	cfu/g	100	03/05/22	AOAC 991.14 (Petrifilm)	

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.

**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:** 22-002383/D044.R000  
**Report Date:** 03/09/2022  
**Purchase Order:** andy3122  
**Received:** 03/02/22 11:41 AM



**Customer:** Lamp Nutraceutical

**Sample ID:** LNK-L30-B12  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 22-002383-0012-00  
**Evidence of Cooling:** No  
**Temp:** 20 °C  
**Relinquished by:** UPS

**Sample Results**

**Mitragynine**

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine <sup>†</sup>	< LOQ	%	0.0100	03/04/22	In house method by HPLC-DAD	
Mitragynine <sup>†</sup>	0.702	%	0.0500	03/04/22	In house method by HPLC-DAD	

**Abbreviations**

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

<sup>†</sup> = Analyte not ISO accredited.

**Units of Measure**

% = Percentage of sample

Approved Signatory

Derrick Tanner  
 General Manager



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

**Report Number:** 22-002891/D002.R000  
**Report Date:** 03/18/2022  
**Purchase Order:** andy31122  
**Received:** 03/14/22 10:47 AM



**Customer:** Lamp Nutraceutical

**Sample ID:** LNK-L30-B12  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 22-002891-0008-00  
**Evidence of Cooling:** No  
**Temp:** 17 °C  
**Relinquished by:** UPS

### Sample Results

#### Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine <sup>†</sup>	< LOQ	%	0.0100	03/16/22	In house method by HPLC-DAD	
Mitragynine <sup>†</sup>	0.892	%	0.0500	03/16/22	In house method by HPLC-DAD	

#### Abbreviations

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

<sup>†</sup> = Analyte not ISO accredited.

#### Units of Measure

% = Percentage of sample

Approved Signatory

Derrick Tanner  
General Manager



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

**Report Number:** 22-002383/D042.R000  
**Report Date:** 03/09/2022  
**Purchase Order:** andy3122  
**Received:** 03/02/22 11:41 AM



**Customer:** Lamp Nutraceutical

**Sample ID:** LNK-L30-B13R  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 22-002383-0013-01  
**Evidence of Cooling:** No  
**Temp:** 20 °C  
**Relinquished by:** UPS

**Sample Results**

**Microbiology**

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		03/04/22	AOAC 2020.02 <sub>1</sub>	
<b>E. coli/Coliform Count (EC) Plate</b>						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	03/05/22	AOAC 991.14 (Petrifilm)	
Total Coliforms	2,100	cfu/g	100	03/05/22	AOAC 991.14 (Petrifilm)	

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.

**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:** 22-002383/D009.R000  
**Report Date:** 03/09/2022  
**Purchase Order:** andy3122  
**Received:** 03/02/22 11:41 AM



**Customer:** Lamp Nutraceutical

**Sample ID:** LNK-L30-B13R  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 22-002383-0013-00  
**Evidence of Cooling:** No  
**Temp:** 20 °C  
**Relinquished by:** UPS

**Sample Results**

Mitragnine						
Mitragnine + 7-Hydroxymitragnine (S3200)						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragnine†	0.0100	%	0.0100	03/04/22	In house method by HPLC-DAD	
Mitragnine†	0.960	%	0.0500	03/04/22	In house method by HPLC-DAD	

**Abbreviations**

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

† = Analyte not ISO accredited.

**Units of Measure**

% = Percentage of sample

Approved Signatory

Derrick Tanner  
 General Manager