



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

Report Number: 21-012144/D003.R000  
 Report Date: 10/25/2021  
 Purchase Order: andy 91327  
 Received: 10/14/21 11:21 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L27-B1  
 Sample Matrix: Kratom powder  
 Laboratory ID: 21-012144-0001-00  
 Evidence of Cooling: No  
 Temp: 18 °C  
 Relinquished by: UPS

**Sample Results**

Microbiology						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		10/19/21	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	10/20/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	7,000	cfu/g	1,000	10/20/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



12423 NE Whitaker Way  
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Report Number: 21-012144/D002.R000  
Report Date: 10/25/2021  
Purchase Order: andy 91327  
Received: 10/14/21 11:21 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L27-B1  
Sample Matrix: Kratom powder  
Laboratory ID: 21-012144-0001-01  
Evidence of Cooling: No  
Temp: 18 °C  
Relinquished by: UPS

### Sample Results

#### Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine†	0.0519	%	0.0100	10/25/21	In house method by HPLC-DAD	
Mitragynine†	1.66	%	0.0500	10/25/21	In house method by HPLC-DAD	



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Received: 10/14/21 11:21 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L27-B2  
Sample Matrix: Kratom powder  
Laboratory ID: 21-012144-0002-00  
Evidence of Cooling: No  
Temp: 18 °C  
Relinquished by: UPS

### Sample Results

#### Microbiology

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		10/19/21	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	10/20/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	2,000	cfu/g	1,000	10/20/21	AOAC 991.14 (Petrifilm)	

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Received: 10/14/21 11:21 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L27-B2  
Sample Matrix: Kratom powder  
Laboratory ID: 21-012144-0002-01  
Evidence of Cooling: No  
Temp: 18 °C  
Relinquished by: UPS

### Sample Results

#### Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine†	0.0275	%	0.0100	10/25/21	In house method by HPLC-DAD	
Mitragynine†	1.36	%	0.0500	10/25/21	In house method by HPLC-DAD	



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 Received: 10/14/21 11:21 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L27-B3  
 Sample Matrix: Kratom powder  
 Laboratory ID: 21-012144-0003-00  
 Evidence of Cooling: No  
 Temp: 18 °C  
 Relinquished by: UPS

**Sample Results**

Microbiology						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		10/19/21	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	10/20/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	4,000	cfu/g	1,000	10/20/21	AOAC 991.14 (Petrifilm)	

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Report Date: 10/25/2021  
Purchase Order: andy 91327  
Received: 10/14/21 11:21 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L27-B3  
Sample Matrix: Kratom powder  
Laboratory ID: 21-012144-0003-01  
Evidence of Cooling: No  
Temp: 18 °C  
Relinquished by: UPS

### Sample Results

#### Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine†	0.0327	%	0.0100	10/25/21	In house method by HPLC-DAD	
Mitragynine†	0.948	%	0.0500	10/25/21	In house method by HPLC-DAD	



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**Received:** 10/14/21 11:21 AM



**Customer:** Lamp Nutraceutical

**Sample ID:** LNK-L27-B4  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 21-012144-0004-00  
**Evidence of Cooling:** No  
**Temp:** 18 °C  
**Relinquished by:** UPS

**Sample Results**

**Microbiology**

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		10/19/21	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	10/20/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	200	cfu/g	100	10/20/21	AOAC 991.14 (Petrifilm)	

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Received: 10/14/21 11:21 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L27-B4  
Sample Matrix: Kratom powder  
Laboratory ID: 21-012144-0004-01  
Evidence of Cooling: No  
Temp: 18 °C  
Relinquished by: UPS

### Sample Results

#### Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine†	0.0442	%	0.0100	10/25/21	In house method by HPLC-DAD	
Mitragynine†	1.37	%	0.0500	10/25/21	In house method by HPLC-DAD	



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Customer: Lamp Nutraceutical

Sample ID: LNK-L27-B5  
 Sample Matrix: Kratom powder  
 Laboratory ID: 21-012144-0005-00  
 Evidence of Cooling: No  
 Temp: 18 °C  
 Relinquished by: UPS

**Sample Results**

**Microbiology**

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		10/19/21	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	10/20/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	4,000	cfu/g	1,000	10/20/21	AOAC 991.14 (Petrifilm)	

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Customer: Lamp Nutraceutical

Sample ID: LNK-L27-B5  
Sample Matrix: Kratom powder  
Laboratory ID: 21-012144-0005-01  
Evidence of Cooling: No  
Temp: 18 °C  
Relinquished by: UPS

### Sample Results

#### Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine†	0.0272	%	0.0100	10/25/21	In house method by HPLC-DAD	
Mitragynine†	1.18	%	0.0500	10/25/21	In house method by HPLC-DAD	



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Customer: Lamp Nutraceutical

Sample ID: LNK-L27-B6  
 Sample Matrix: Kratom powder  
 Laboratory ID: 21-012144-0006-00  
 Evidence of Cooling: No  
 Temp: 18 °C  
 Relinquished by: UPS

**Sample Results**

**Microbiology**

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		10/19/21	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	10/20/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	200	cfu/g	100	10/20/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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Customer: Lamp Nutraceutical

Sample ID: LNK-L27-B6  
Sample Matrix: Kratom powder  
Laboratory ID: 21-012144-0006-01  
Evidence of Cooling: No  
Temp: 18 °C  
Relinquished by: UPS

### Sample Results

#### Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine†	0.0468	%	0.0100	10/25/21	In house method by HPLC-DAD	
Mitragynine†	1.71	%	0.0500	10/25/21	In house method by HPLC-DAD	



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**Customer:** Lamp Nutraceutical

**Sample ID:** LNK-L27-B7  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 21-012144-0007-00  
**Evidence of Cooling:** No  
**Temp:** 18 °C  
**Relinquished by:** UPS

**Sample Results**

Microbiology						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		10/19/21	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	10/20/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	100	cfu/g	100	10/20/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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Received: 10/14/21 11:21 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L27-B7  
Sample Matrix: Kratom powder  
Laboratory ID: 21-012144-0007-01  
Evidence of Cooling: No  
Temp: 18 °C  
Relinquished by: UPS

### Sample Results

#### Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine†	0.0266	%	0.0100	10/25/21	In house method by HPLC-DAD	
Mitragynine†	1.33	%	0.0500	10/25/21	In house method by HPLC-DAD	



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Customer: Lamp Nutraceutical

Sample ID: LNK-L27-B8  
 Sample Matrix: Kratom powder  
 Laboratory ID: 21-012144-0008-00  
 Evidence of Cooling: No  
 Temp: 18 °C  
 Relinquished by: UPS

**Sample Results**

Microbiology						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		10/19/21	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	10/20/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	16,000	cfu/g	1,000	10/20/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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 Report Date: 10/25/2021  
 Purchase Order: andy 91327  
 Received: 10/14/21 11:21 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L27-B8  
 Sample Matrix: Kratom powder  
 Laboratory ID: 21-012144-0008-01  
 Evidence of Cooling: No  
 Temp: 18 °C  
 Relinquished by: UPS

**Sample Results**

**Mitragynine**

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine†	0.0430	%	0.0100	10/25/21	In house method by HPLC-DAD	
Mitragynine†	1.30	%	0.0500	10/25/21	In house method by HPLC-DAD	

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

Report Number: 21-012667/D002.R000  
 Report Date: 11/04/2021  
 Purchase Order: andy 102621  
 Received: 10/27/21 10:15 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L27-B9  
 Sample Matrix: Kratom powder  
 Laboratory ID: 21-012667-0001-01  
 Evidence of Cooling: No  
 Temp: 20.3 °C  
 Relinquished by: UPS

**Sample Results**

Microbiology						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		10/29/21	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	10/30/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	200	cfu/g	100	10/30/21	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.

† = Analyte not ISO accredited.

**Units of Measure**

/25g = Per 25g

cfu/g = Colony forming units per gram

% = Percentage of sample

Approved Signatory

Derrick Tanner  
 General Manager



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

Report Number: 21-012667/D002.R000  
Report Date: 11/04/2021  
Purchase Order: andy 102621  
Received: 10/27/21 10:15 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L27-B9  
Sample Matrix: Kratom powder  
Laboratory ID: 21-012667-0001-00  
Evidence of Cooling: No  
Temp: 20.3 °C  
Relinquished by: UPS

### Sample Results

#### Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine†	0.0223	%	0.0100	11/03/21	In house method by HPLC-DAD	
Mitragynine†	1.60	%	0.0500	11/03/21	In house method by HPLC-DAD	

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Customer: Lamp Nutraceutical

Sample ID: LNK-L27-B10  
 Sample Matrix: Kratom powder  
 Laboratory ID: 21-012144-0010-00  
 Evidence of Cooling: No  
 Temp: 18 °C  
 Relinquished by: UPS

**Sample Results**

Microbiology						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		10/19/21	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	10/20/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	7,000	cfu/g	1,000	10/20/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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Report Date: 10/25/2021  
Purchase Order: andy 91327  
Received: 10/14/21 11:21 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L27-B10  
Sample Matrix: Kratom powder  
Laboratory ID: 21-012144-0010-01  
Evidence of Cooling: No  
Temp: 18 °C  
Relinquished by: UPS

### Sample Results

#### Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine†	0.0304	%	0.0100	10/25/21	In house method by HPLC-DAD	
Mitragynine†	1.41	%	0.0500	10/25/21	In house method by HPLC-DAD	



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 Received: 10/14/21 11:21 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L27-B11  
 Sample Matrix: Kratom powder  
 Laboratory ID: 21-012144-0011-00  
 Evidence of Cooling: No  
 Temp: 18 °C  
 Relinquished by: UPS

**Sample Results**

Microbiology						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/15g		10/19/21	AOAC 2020.02 <sub>1</sub>	I
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	10/20/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	50,000	cfu/g	10,000	10/20/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay

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Purchase Order: andy 91327  
Received: 10/14/21 11:21 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L27-B11  
Sample Matrix: Kratom powder  
Laboratory ID: 21-012144-0011-01  
Evidence of Cooling: No  
Temp: 18 °C  
Relinquished by: UPS

### Sample Results

#### Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine†	0.0335	%	0.0100	10/25/21	In house method by HPLC-DAD	
Mitragynine†	1.37	%	0.0500	10/25/21	In house method by HPLC-DAD	



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**Received:** 10/14/21 11:21 AM



**Customer:** Lamp Nutraceutical

**Sample ID:** LNK-L27-B12  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 21-012144-0012-00  
**Evidence of Cooling:** No  
**Temp:** 18 °C  
**Relinquished by:** UPS

**Sample Results**

Microbiology						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/15g		10/19/21	AOAC 2020.02 <sub>1</sub>	I
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	10/20/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	200	cfu/g	100	10/20/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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Purchase Order: andy 91327  
Received: 10/14/21 11:21 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L27-B12  
Sample Matrix: Kratom powder  
Laboratory ID: 21-012144-0012-01  
Evidence of Cooling: No  
Temp: 18 °C  
Relinquished by: UPS

### Sample Results

#### Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine†	0.0214	%	0.0100	10/25/21	In house method by HPLC-DAD	
Mitragynine†	1.43	%	0.0500	10/25/21	In house method by HPLC-DAD	



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Customer: Lamp Nutraceutical

Sample ID: LNK-L27-B13  
 Sample Matrix: Kratom powder  
 Laboratory ID: 21-012144-0013-00  
 Evidence of Cooling: No  
 Temp: 18 °C  
 Relinquished by: UPS

**Sample Results**

Microbiology						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		10/19/21	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	10/20/21	AOAC 991.14 (Petriefilm)	
Total Coliforms	140,000	cfu/g	10,000	10/20/21	AOAC 991.14 (Petriefilm)	

1) GENE-UP® Assay



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Customer: Lamp Nutraceutical

Sample ID: LNK-L27-B13  
Sample Matrix: Kratom powder  
Laboratory ID: 21-012144-0013-01  
Evidence of Cooling: No  
Temp: 18 °C  
Relinquished by: UPS

### Sample Results

#### Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine†	0.0208	%	0.0100	10/25/21	In house method by HPLC-DAD	
Mitragynine†	1.20	%	0.0500	10/25/21	In house method by HPLC-DAD	



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

**Report Number:** 21-012144/D003.R000  
**Report Date:** 10/25/2021  
**Purchase Order:** andy 91327  
**Received:** 10/14/21 11:21 AM



**Customer:** Lamp Nutraceutical

**Sample ID:** LNK-L27-B14  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 21-012144-0014-00  
**Evidence of Cooling:** No  
**Temp:** 18 °C  
**Relinquished by:** UPS

**Sample Results**

**Microbiology**

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/15g		10/19/21	AOAC 2020.02 <sub>1</sub>	I
<b>E. coli/Coliform Count (EC) Plate</b>						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	10/20/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	1,000	cfu/g	100	10/20/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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

**Report Number:** 21-012144/D002.R000  
**Report Date:** 10/25/2021  
**Purchase Order:** andy 91327  
**Received:** 10/14/21 11:21 AM



**Customer:** Lamp Nutraceutical

**Sample ID:** LNK-L27-B14  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 21-012144-0014-01  
**Evidence of Cooling:** No  
**Temp:** 18 °C  
**Relinquished by:** UPS

**Sample Results**

**Mitragynine**

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine†	0.0302	%	0.0100	10/25/21	In house method by HPLC-DAD	
Mitragynine†	1.61	%	0.0500	10/25/21	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.*



**Customer:** Lamp Nutraceutical

**Sample ID:** LNK-L27-B15  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 21-012144-0015-00  
**Evidence of Cooling:** No  
**Temp:** 18 °C  
**Relinquished by:** UPS

### Sample Results

#### Microbiology

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/15g		10/19/21	AOAC 2020.02 <sub>1</sub>	I
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	10/20/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	140,000	cfu/g	10,000	10/20/21	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.

#### Glossary of Qualifiers

I: Insufficient sample received to meet method requirements.

#### Units of Measure

/15g = Per 15g

/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: 21-012144/D002.R000  
Report Date: 10/25/2021  
Purchase Order: andy 91327  
Received: 10/14/21 11:21 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L27-B15  
Sample Matrix: Kratom powder  
Laboratory ID: 21-012144-0015-01  
Evidence of Cooling: No  
Temp: 18 °C  
Relinquished by: UPS

### Sample Results

#### Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine <sup>†</sup>	0.0301	%	0.0100	10/25/21	In house method by HPLC-DAD	
Mitragynine <sup>†</sup>	0.689	%	0.0500	10/25/21	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