



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

Report Number: 21-006307/D002.R00  
Report Date: 06/15/2021  
Purchase Order:  
Received: 06/08/21 10:27 AM



Customer: Lamp Nutraceutical

Sample ID: LNK24 B1  
Sample Matrix: Kratom powder  
Laboratory ID: 21-006307-0001-00  
Evidence of Cooling: No  
Temp: 19 °C  
Relinquished by: UPS

### Sample Results

#### Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine†	0.0299	%	0.0100	06/14/21	In house method by HPLC-DAD	
Mitragynine†	0.601	%	0.0500	06/14/21	In house method by HPLC-DAD	



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**Received:** 06/08/21 10:27 AM



**Customer:** Lamp Nutraceutical

**Sample ID:** LNK24 B1  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 21-006307-0001-01  
**Evidence of Cooling:** No  
**Temp:** 19 °C  
**Relinquished by:** UPS

**Sample Results**

**Microbiology**

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		06/10/21	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	06/11/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	300	cfu/g	100	06/11/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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Report Date: 06/15/2021  
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Customer: Lamp Nutraceutical

Sample ID: LNK24 B2  
Sample Matrix: Kratom powder  
Laboratory ID: 21-006307-0002-00  
Evidence of Cooling: No  
Temp: 19 °C  
Relinquished by: UPS

### Sample Results

#### Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine†	0.0548	%	0.0100	06/14/21	In house method by HPLC-DAD	
Mitragynine†	0.970	%	0.0500	06/14/21	In house method by HPLC-DAD	



**Customer:** Lamp Nutraceutical

**Sample ID:** LNK24 B2  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 21-006307-0002-01  
**Evidence of Cooling:** No  
**Temp:** 19 °C  
**Relinquished by:** UPS

### Sample Results

#### Microbiology

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		06/10/21	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	06/11/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	7,300	cfu/g	100	06/11/21	AOAC 991.14 (Petrifilm)	

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Customer: Lamp Nutraceutical

Sample ID: LNK24 B3  
Sample Matrix: Kratom powder  
Laboratory ID: 21-006307-0003-00  
Evidence of Cooling: No  
Temp: 19 °C  
Relinquished by: UPS

### Sample Results

#### Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine†	0.0495	%	0.0100	06/14/21	In house method by HPLC-DAD	
Mitragynine†	0.898	%	0.0500	06/14/21	In house method by HPLC-DAD	



**Customer:** Lamp Nutraceutical

**Sample ID:** LNK24 B3  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 21-006307-0003-01  
**Evidence of Cooling:** No  
**Temp:** 19 °C  
**Relinquished by:** UPS

### Sample Results

#### Microbiology

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		06/10/21	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	06/11/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	300	cfu/g	100	06/11/21	AOAC 991.14 (Petrifilm)	

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Customer: Lamp Nutraceutical

Sample ID: LNK24 B4  
 Sample Matrix: Kratom powder  
 Laboratory ID: 21-006307-0004-00  
 Evidence of Cooling: No  
 Temp: 19 °C  
 Relinquished by: UPS

**Sample Results**

**Mitragynine**

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine†	0.0521	%	0.0100	06/14/21	In house method by HPLC-DAD	
Mitragynine†	1.05	%	0.0500	06/14/21	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: LNK24 B4  
Sample Matrix: Kratom powder  
Laboratory ID: 21-006307-0004-01  
Evidence of Cooling: No  
Temp: 19 °C  
Relinquished by: UPS

### Sample Results

#### Microbiology

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		06/10/21	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	06/11/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	2,300	cfu/g	100	06/11/21	AOAC 991.14 (Petrifilm)	

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Customer: Lamp Nutraceutical

Sample ID: LNK24 B5  
Sample Matrix: Kratom powder  
Laboratory ID: 21-006307-0005-00  
Evidence of Cooling: No  
Temp: 19 °C  
Relinquished by: UPS

### Sample Results

#### Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine†	0.0379	%	0.0100	06/14/21	In house method by HPLC-DAD	
Mitragynine†	0.750	%	0.0500	06/14/21	In house method by HPLC-DAD	



Customer: Lamp Nutraceutical

Sample ID: LNK24 B5  
Sample Matrix: Kratom powder  
Laboratory ID: 21-006307-0005-01  
Evidence of Cooling: No  
Temp: 19 °C  
Relinquished by: UPS

### Sample Results

#### Microbiology

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		06/10/21	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	06/11/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	1,900	cfu/g	100	06/11/21	AOAC 991.14 (Petrifilm)	

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Customer: Lamp Nutraceutical

Sample ID: LNK24 B6  
Sample Matrix: Kratom powder  
Laboratory ID: 21-006307-0006-00  
Evidence of Cooling: No  
Temp: 19 °C  
Relinquished by: UPS

### Sample Results

#### Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine†	0.0249	%	0.0100	06/14/21	In house method by HPLC-DAD	
Mitragynine†	0.581	%	0.0500	06/14/21	In house method by HPLC-DAD	



Customer: Lamp Nutraceutical

Sample ID: LNK24 B6  
Sample Matrix: Kratom powder  
Laboratory ID: 21-006307-0006-01  
Evidence of Cooling: No  
Temp: 19 °C  
Relinquished by: UPS

**Sample Results**

**Microbiology**

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		06/10/21	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	06/11/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	800	cfu/g	100	06/11/21	AOAC 991.14 (Petrifilm)	

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**Customer:** Lamp Nutraceutical

**Sample ID:** LNK24 B7  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 21-006307-0007-00  
**Evidence of Cooling:** No  
**Temp:** 19 °C  
**Relinquished by:** UPS

**Sample Results**

**Mitragynine**

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine†	0.0215	%	0.0100	06/14/21	In house method by HPLC-DAD	
Mitragynine†	0.532	%	0.0500	06/14/21	In house method by HPLC-DAD	



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Customer: Lamp Nutraceutical

Sample ID: LNK24 B7  
 Sample Matrix: Kratom powder  
 Laboratory ID: 21-006307-0007-01  
 Evidence of Cooling: No  
 Temp: 19 °C  
 Relinquished by: UPS

**Sample Results**

**Microbiology**

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		06/10/21	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	06/11/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	< LOQ	cfu/g	100	06/11/21	AOAC 991.14 (Petrifilm)	

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**Customer:** Lamp Nutraceutical

**Sample ID:** LNK24 B8  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 21-006307-0008-00  
**Evidence of Cooling:** No  
**Temp:** 19 °C  
**Relinquished by:** UPS

**Sample Results**

**Mitragynine**

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine†	0.0456	%	0.0100	06/14/21	In house method by HPLC-DAD	
Mitragynine†	0.845	%	0.0500	06/14/21	In house method by HPLC-DAD	



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**Customer:** Lamp Nutraceutical

**Sample ID:** LNK24 B8  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 21-006307-0008-01  
**Evidence of Cooling:** No  
**Temp:** 19 °C  
**Relinquished by:** UPS

**Sample Results**

**Microbiology**

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		06/10/21	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	06/11/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	9,000	cfu/g	1,000	06/11/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



**Customer:** Lamp Nutraceutical

**Sample ID:** LNK24 B9  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 21-006307-0009-00  
**Evidence of Cooling:** No  
**Temp:** 19 °C  
**Relinquished by:** UPS

### Sample Results

#### Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine†	0.0684	%	0.0100	06/14/21	In house method by HPLC-DAD	
Mitragynine†	1.60	%	0.0500	06/14/21	In house method by HPLC-DAD	



**Customer:** Lamp Nutraceutical

**Sample ID:** LNK24 B9  
**Sample Matrix:** Kratom powder  
**Laboratory ID:** 21-006307-0009-01  
**Evidence of Cooling:** No  
**Temp:** 19 °C  
**Relinquished by:** UPS

### Sample Results

#### Microbiology

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		06/10/21	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	06/11/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	20,000	cfu/g	1,000	06/11/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay