



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

Report Number: 21-004466/D02.R00
Report Date: 04/29/2021
Purchase Order:
Received: 04/22/21 11:00 AM



Customer: Lamp Nutraceutical

Sample ID: LNK 22 B1
Sample Matrix: Kratom powder
Laboratory ID: 21-004466-0001-00
Evidence of Cooling: No
Temp: 21 °C

Sample Results

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine ¹	0.0546	%	0.0100	04/28/21	In house method by HPLC-DAD	
Mitragynine ¹	0.898	%	0.0500	04/28/21	In house method by HPLC-DAD	



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Customer: Lamp Nutraceutical

Sample ID: LNK 22 B1
Sample Matrix: Kratom powder
Laboratory ID: 21-004466-0001-01
Evidence of Cooling: No
Temp: 21 °C

Sample Results

Microbiology

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		04/24/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	04/25/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	600	cfu/g	100	04/25/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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Report Number: 21-004466/D02.R00
Report Date: 04/29/2021
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Customer: Lamp Nutraceutical

Sample ID: LNK 22 B2
Sample Matrix: Kratom powder
Laboratory ID: 21-004466-0002-00
Evidence of Cooling: No
Temp: 21 °C

Sample Results

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine†	0.0801	%	0.0100	04/28/21	In house method by HPLC-DAD	
Mitragynine†	1.39	%	0.0500	04/28/21	In house method by HPLC-DAD	

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Customer: Lamp Nutraceutical

Sample ID: LNK 22 B2
Sample Matrix: Kratom powder
Laboratory ID: 21-004466-0002-01
Evidence of Cooling: No
Temp: 21 °C

Sample Results

Microbiology

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		04/24/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	04/25/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	200	cfu/g	100	04/25/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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Customer: Lamp Nutraceutical

Sample ID: LNK 22 B3
Sample Matrix: Kratom powder
Laboratory ID: 21-004466-0003-00
Evidence of Cooling: No
Temp: 21 °C

Sample Results

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine ¹	0.0604	%	0.0100	04/28/21	In house method by HPLC-DAD	
Mitragynine ¹	1.20	%	0.0500	04/28/21	In house method by HPLC-DAD	

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Sample ID: LNK 22 B3
Sample Matrix: Kratom powder
Laboratory ID: 21-004466-0003-01
Evidence of Cooling: No
Temp: 21 °C

Sample Results

Microbiology

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		04/24/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	04/25/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	600	cfu/g	100	04/25/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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Customer: Lamp Nutraceutical

Sample ID: LNK 22 B4
Sample Matrix: Kratom powder
Laboratory ID: 21-004466-0004-00
Evidence of Cooling: No
Temp: 21 °C

Sample Results

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine [†]	0.128	%	0.0100	04/28/21	In house method by HPLC-DAD	
Mitragynine [†]	1.65	%	0.0500	04/28/21	In house method by HPLC-DAD	

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Customer: Lamp Nutraceutical

Sample ID: LNK 22 B4
Sample Matrix: Kratom powder
Laboratory ID: 21-004466-0004-01
Evidence of Cooling: No
Temp: 21 °C

Sample Results

Microbiology

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		04/24/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	04/25/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	400	cfu/g	100	04/25/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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Customer: Lamp Nutraceutical

Sample ID: LNK 22 B5
Sample Matrix: Kratom powder
Laboratory ID: 21-004466-0005-00
Evidence of Cooling: No
Temp: 21 °C

Sample Results

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine ¹	0.0767	%	0.0100	04/28/21	In house method by HPLC-DAD	
Mitragynine ¹	1.40	%	0.0500	04/28/21	In house method by HPLC-DAD	



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Customer: Lamp Nutraceutical

Sample ID: LNK 22 B5
Sample Matrix: Kratom powder
Laboratory ID: 21-004466-0005-01
Evidence of Cooling: No
Temp: 21 °C

Sample Results

Microbiology

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		04/24/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	04/25/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	300	cfu/g	100	04/25/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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Customer: Lamp Nutraceutical

Sample ID: LNK 22 B6
Sample Matrix: Kratom powder
Laboratory ID: 21-004466-0006-00
Evidence of Cooling: No
Temp: 21 °C

Sample Results

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine [†]	0.0819	%	0.0100	04/28/21	In house method by HPLC-DAD	
Mitragynine [†]	1.34	%	0.0500	04/28/21	In house method by HPLC-DAD	

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Customer: Lamp Nutraceutical

Sample ID: LNK 22 B6
Sample Matrix: Kratom powder
Laboratory ID: 21-004466-0006-01
Evidence of Cooling: No
Temp: 21 °C

Sample Results

Microbiology						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		04/24/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	04/25/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	< LOQ	cfu/g	100	04/25/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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Report Number: 21-004466/D02.R00
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Customer: Lamp Nutraceutical

Sample ID: LNK 22 B7
Sample Matrix: Kratom powder
Laboratory ID: 21-004466-0007-00
Evidence of Cooling: No
Temp: 21 °C

Sample Results

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine [†]	0.105	%	0.0100	04/28/21	In house method by HPLC-DAD	
Mitragynine [†]	1.38	%	0.0500	04/28/21	In house method by HPLC-DAD	

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Customer: Lamp Nutraceutical

Sample ID: LNK 22 B7
Sample Matrix: Kratom powder
Laboratory ID: 21-004466-0007-01
Evidence of Cooling: No
Temp: 21 °C

Sample Results

Microbiology

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		04/24/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	04/25/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	400	cfu/g	100	04/25/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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Customer: Lamp Nutraceutical

Sample ID: LNK 22 B8
Sample Matrix: Kratom powder
Laboratory ID: 21-004466-0008-00
Evidence of Cooling: No
Temp: 21 °C

Sample Results

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine [†]	0.0610	%	0.0100	04/28/21	In house method by HPLC-DAD	
Mitragynine [†]	1.35	%	0.0500	04/28/21	In house method by HPLC-DAD	



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Customer: Lamp Nutraceutical

Sample ID: LNK 22 B8
Sample Matrix: Kratom powder
Laboratory ID: 21-004466-0008-01
Evidence of Cooling: No
Temp: 21 °C

Sample Results

Microbiology

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		04/24/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	04/25/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	100	cfu/g	100	04/25/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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Report Number: 21-004466/D02.R00
Report Date: 04/29/2021
Purchase Order:
Received: 04/22/21 11:00 AM



Customer: Lamp Nutraceutical

Sample ID: LNK 22 B9
Sample Matrix: Kratom powder
Laboratory ID: 21-004466-0009-00
Evidence of Cooling: No
Temp: 21 °C

Sample Results

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine†	0.0860	%	0.0100	04/28/21	In house method by HPLC-DAD	
Mitragynine†	1.59	%	0.0500	04/28/21	In house method by HPLC-DAD	



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Customer: Lamp Nutraceutical

Sample ID: LNK 22 B9
Sample Matrix: Kratom powder
Laboratory ID: 21-004466-0009-01
Evidence of Cooling: No
Temp: 21 °C

Sample Results

Microbiology

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		04/24/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	04/25/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	100	cfu/g	100	04/25/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



Customer: Lamp Nutraceutical

Sample ID: LNK22 10T1
Sample Matrix: Kratom powder
Laboratory ID: 21-006307-0012-00
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†	0.0571	%	0.0100	06/14/21	In house method by HPLC-DAD	
Mitragynine†	1.75	%	0.0500	06/14/21	In house method by HPLC-DAD	



Customer: Lamp Nutraceutical

Sample ID: LNK22 10T1
Sample Matrix: Kratom powder
Laboratory ID: 21-006307-0012-01
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 ₁	
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	600	cfu/g	100	06/11/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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Report Number: 21-004466/D02.R00
Report Date: 04/29/2021
Purchase Order:
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Customer: Lamp Nutraceutical

Sample ID: RBW POW
Sample Matrix: Kratom powder
Laboratory ID: 21-004466-0011-00
Evidence of Cooling: No
Temp: 21 °C

Sample Results

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine [†]	0.0745	%	0.0100	04/28/21	In house method by HPLC-DAD	
Mitragynine [†]	1.14	%	0.0500	04/28/21	In house method by HPLC-DAD	



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Customer: Lamp Nutraceutical

Sample ID: RBW POW
Sample Matrix: Kratom powder
Laboratory ID: 21-004466-0011-01
Evidence of Cooling: No
Temp: 21 °C

Sample Results

Microbiology

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/10g		04/24/21	AOAC 2020.02 ₁	I
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	1,000	04/25/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	1,000	cfu/g	100	04/25/21	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.

† = Analyte not ISO accredited.

Units of Measure

/25g = Per 25g

cfu/g = Colony forming units per gram

/10g = Per 10 grams

% = Percentage of sample

Approved Signatory

Derrick Tanner
 General Manager

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