



Customer: Lamp Nutraceutical

Sample ID: LNK-L28-B1
Sample Matrix: Kratom powder
Laboratory ID: 21-012995-0001-01
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	/15g		11/06/21	AOAC 2020.02 ₁	I
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	11/07/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	700	cfu/g	100	11/07/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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

Report Number: 21-012995/D004.R000
Report Date: 11/11/2021
Purchase Order: andy 11321
Received: 11/04/21 09:54 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L28-B1
Sample Matrix: Kratom powder
Laboratory ID: 21-012995-0001-00
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†	0.0162	%	0.0100	11/09/21	In house method by HPLC-DAD	
Mitragynine†	1.17	%	0.0500	11/09/21	In house method by HPLC-DAD	



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Report Number: 21-012995/D003.R000
 Report Date: 11/11/2021
 Purchase Order: andy 11321
 Received: 11/04/21 09:54 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L28-B2
 Sample Matrix: Kratom powder
 Laboratory ID: 21-012995-0002-01
 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	/15g		11/06/21	AOAC 2020.02 ₁	I
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	11/07/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	23,000	cfu/g	1,000	11/07/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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Customer: Lamp Nutraceutical

Sample ID: LNK-L28-B2
Sample Matrix: Kratom powder
Laboratory ID: 21-012995-0002-00
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†	0.0165	%	0.0100	11/09/21	In house method by HPLC-DAD	
Mitragynine†	0.386	%	0.0500	11/09/21	In house method by HPLC-DAD	



Customer: Lamp Nutraceutical

Sample ID: LNK-L28-B3
Sample Matrix: Kratom powder
Laboratory ID: 21-012995-0003-01
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		11/06/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	11/07/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	< LOQ	cfu/g	100	11/07/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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Customer: Lamp Nutraceutical

Sample ID: LNK-L28-B3
Sample Matrix: Kratom powder
Laboratory ID: 21-012995-0003-00
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†	0.0179	%	0.0100	11/09/21	In house method by HPLC-DAD	
Mitragynine†	1.21	%	0.0500	11/09/21	In house method by HPLC-DAD	



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Customer: Lamp Nutraceutical

Sample ID: LNK-L28-B4
Sample Matrix: Kratom powder
Laboratory ID: 21-012995-0004-01
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		11/06/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	11/07/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	< LOQ	cfu/g	100	11/07/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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Customer: Lamp Nutraceutical

Sample ID: LNK-L28-B4
Sample Matrix: Kratom powder
Laboratory ID: 21-012995-0004-00
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†	0.0215	%	0.0100	11/09/21	In house method by HPLC-DAD	
Mitragynine†	1.39	%	0.0500	11/09/21	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.



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 Purchase Order: andy 11321
 Received: 11/04/21 09:54 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L28-B5
 Sample Matrix: Kratom powder
 Laboratory ID: 21-012995-0005-01
 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		11/06/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	11/07/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	< LOQ	cfu/g	100	11/07/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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Received: 11/04/21 09:54 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L28-B5
Sample Matrix: Kratom powder
Laboratory ID: 21-012995-0005-00
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†	0.0198	%	0.0100	11/09/21	In house method by HPLC-DAD	
Mitragynine†	1.43	%	0.0500	11/09/21	In house method by HPLC-DAD	



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Customer: Lamp Nutraceutical

Sample ID: LNK-L28-B6
Sample Matrix: Kratom powder
Laboratory ID: 21-012995-0006-01
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	/15g		11/06/21	AOAC 2020.02 ₁	I
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	11/07/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	< LOQ	cfu/g	100	11/07/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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Purchase Order: andy 11321
Received: 11/04/21 09:54 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L28-B6
Sample Matrix: Kratom powder
Laboratory ID: 21-012995-0006-00
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†	0.0192	%	0.0100	11/09/21	In house method by HPLC-DAD	
Mitragynine†	1.53	%	0.0500	11/09/21	In house method by HPLC-DAD	



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Received: 11/04/21 09:54 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L28-B7
Sample Matrix: Kratom powder
Laboratory ID: 21-012995-0007-01
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	/15g		11/06/21	AOAC 2020.02 ₁	I
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	11/07/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	20,000	cfu/g	1,000	11/07/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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Report Number: 21-012995/D004.R000
Report Date: 11/11/2021
Purchase Order: andy 11321
Received: 11/04/21 09:54 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L28-B7
Sample Matrix: Kratom powder
Laboratory ID: 21-012995-0007-00
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†	0.0190	%	0.0100	11/09/21	In house method by HPLC-DAD	
Mitragynine†	1.39	%	0.0500	11/09/21	In house method by HPLC-DAD	

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 Purchase Order: andy 11321
 Received: 11/04/21 09:54 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L28-B8
 Sample Matrix: Kratom powder
 Laboratory ID: 21-012995-0008-01
 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		11/06/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	11/07/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	5,600	cfu/g	100	11/07/21	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



Customer: Lamp Nutraceutical

Sample ID: LNK-L28-B8
Sample Matrix: Kratom powder
Laboratory ID: 21-012995-0008-00
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 [†]	0.0231	%	0.0100	11/09/21	In house method by HPLC-DAD	
Mitragynine [†]	1.15	%	0.0500	11/09/21	In house method by HPLC-DAD	

Abbreviations

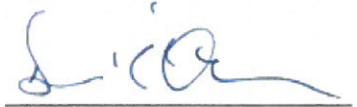
Limit(s) of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

[†] = Analyte not ISO accredited.

Units of Measure

% = Percentage of sample

Approved Signatory



Derrick Tanner
General Manager