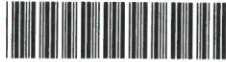




12423 NE Whitaker Way
 Portland, OR 97230
 503-254-1794

Report Number: 21-014617/D003.R000
Report Date: 12/21/2021
Purchase Order: andy121321
Received: 12/14/21 11:02 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L29-B1
Sample Matrix: Kratom powder
Laboratory ID: 21-014617-0001-00
Evidence of Cooling: No
Temp: 16 °C
Relinquished by: UPS

Sample Results

Microbiology

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		12/16/21	AOAC 2020.02 ₁	

E. coli/Coliform Count (EC) Plate

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	12/17/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	< LOQ	cfu/g	100	12/17/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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

Report Number: 21-014617/D002.R000
Report Date: 12/21/2021
Purchase Order: andy121321
Received: 12/14/21 11:02 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L29-B1
Sample Matrix: Kratom powder
Laboratory ID: 21-014617-0001-01
Evidence of Cooling: No
Temp: 16 °C
Relinquished by: UPS

Sample Results

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine†	0.0300	%	0.0100	12/17/21	In house method by HPLC-DAD	
Mitragynine†	1.40	%	0.0500	12/17/21	In house method by HPLC-DAD	



Customer: Lamp Nutraceutical

Sample ID: LNK-L29-B2
Sample Matrix: Kratom powder
Laboratory ID: 21-014617-0002-00
Evidence of Cooling: No
Temp: 16 °C
Relinquished by: UPS

Sample Results

Microbiology

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		12/16/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	12/17/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	1,200	cfu/g	100	12/17/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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

Report Number: 21-014617/D002.R000
Report Date: 12/21/2021
Purchase Order: andy121321
Received: 12/14/21 11:02 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L29-B2
Sample Matrix: Kratom powder
Laboratory ID: 21-014617-0002-01
Evidence of Cooling: No
Temp: 16 °C
Relinquished by: UPS

Sample Results

Mitragynine

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

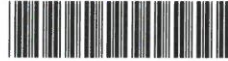
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine†	0.0516	%	0.0100	12/17/21	In house method by HPLC-DAD	
Mitragynine†	1.03	%	0.0500	12/17/21	In house method by HPLC-DAD	

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.



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

Report Number: 21-014617/D003.R000
 Report Date: 12/21/2021
 Purchase Order: andy121321
 Received: 12/14/21 11:02 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L29-B3
 Sample Matrix: Kratom powder
 Laboratory ID: 21-014617-0003-00
 Evidence of Cooling: No
 Temp: 16 °C
 Relinquished by: UPS

Sample Results

Microbiology

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		12/16/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	12/17/21	AOAC 991.14 (Petriefilm)	
Total Coliforms	8,000	cfu/g	100	12/17/21	AOAC 991.14 (Petriefilm)	

1) GENE-UP® Assay



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

Report Number: 21-014617/D002.R000
Report Date: 12/21/2021
Purchase Order: andy121321
Received: 12/14/21 11:02 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L29-B3
Sample Matrix: Kratom powder
Laboratory ID: 21-014617-0003-01
Evidence of Cooling: No
Temp: 16 °C
Relinquished by: UPS

Sample Results

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine†	0.0583	%	0.0100	12/17/21	In house method by HPLC-DAD	
Mitragynine†	1.23	%	0.0500	12/17/21	In house method by HPLC-DAD	



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

Report Number: 21-014617/D003.R000
Report Date: 12/21/2021
Purchase Order: andy121321
Received: 12/14/21 11:02 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L29-B4
Sample Matrix: Kratom powder
Laboratory ID: 21-014617-0004-00
Evidence of Cooling: No
Temp: 16 °C
Relinquished by: UPS

Sample Results

Microbiology

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		12/16/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	12/17/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	1,600	cfu/g	100	12/17/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



Customer: Lamp Nutraceutical

Sample ID: LNK-L29-B4
Sample Matrix: Kratom powder
Laboratory ID: 21-014617-0004-01
Evidence of Cooling: No
Temp: 16 °C
Relinquished by: UPS

Sample Results

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine†	0.0332	%	0.0100	12/17/21	In house method by HPLC-DAD	
Mitragynine†	1.10	%	0.0500	12/17/21	In house method by HPLC-DAD	



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

Report Number: 21-014617/D003.R000
Report Date: 12/21/2021
Purchase Order: andy121321
Received: 12/14/21 11:02 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L29-B5
Sample Matrix: Kratom powder
Laboratory ID: 21-014617-0005-00
Evidence of Cooling: No
Temp: 16 °C
Relinquished by: UPS

Sample Results

Microbiology

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		12/16/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	12/17/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	40,000	cfu/g	1,000	12/17/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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

Report Number: 21-014617/D002.R000
Report Date: 12/21/2021
Purchase Order: andy121321
Received: 12/14/21 11:02 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L29-B5
Sample Matrix: Kratom powder
Laboratory ID: 21-014617-0005-01
Evidence of Cooling: No
Temp: 16 °C
Relinquished by: UPS

Sample Results

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine†	0.0343	%	0.0100	12/17/21	In house method by HPLC-DAD	
Mitragynine†	0.906	%	0.0500	12/17/21	In house method by HPLC-DAD	



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

Report Number: 21-014617/D003.R000
Report Date: 12/21/2021
Purchase Order: andy121321
Received: 12/14/21 11:02 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L29-B6
Sample Matrix: Kratom powder
Laboratory ID: 21-014617-0006-00
Evidence of Cooling: No
Temp: 16 °C
Relinquished by: UPS

Sample Results

Microbiology

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		12/16/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	12/17/21	AOAC 991.14 (Petrfilm)	
Total Coliforms	< LOQ	cfu/g	100	12/17/21	AOAC 991.14 (Petrfilm)	

1) GENE-UP® Assay



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

Report Number: 21-014617/D002.R000
Report Date: 12/21/2021
Purchase Order: andy121321
Received: 12/14/21 11:02 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L29-B6
Sample Matrix: Kratom powder
Laboratory ID: 21-014617-0006-01
Evidence of Cooling: No
Temp: 16 °C
Relinquished by: UPS

Sample Results

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine†	0.0305	%	0.0100	12/17/21	In house method by HPLC-DAD	
Mitragynine†	1.14	%	0.0500	12/17/21	In house method by HPLC-DAD	



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

Report Number: 21-014617/D003.R000
 Report Date: 12/21/2021
 Purchase Order: andy121321
 Received: 12/14/21 11:02 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L29-B7
 Sample Matrix: Kratom powder
 Laboratory ID: 21-014617-0007-00
 Evidence of Cooling: No
 Temp: 16 °C
 Relinquished by: UPS

Sample Results

Microbiology

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/15g		12/16/21	AOAC 2020.02 ₁	I
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	12/17/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	2,600	cfu/g	100	12/17/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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

Report Number: 21-014617/D002.R000
Report Date: 12/21/2021
Purchase Order: andy121321
Received: 12/14/21 11:02 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L29-B7
Sample Matrix: Kratom powder
Laboratory ID: 21-014617-0007-01
Evidence of Cooling: No
Temp: 16 °C
Relinquished by: UPS

Sample Results

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine†	0.0355	%	0.0100	12/17/21	In house method by HPLC-DAD	
Mitragynine†	1.10	%	0.0500	12/17/21	In house method by HPLC-DAD	



Customer: Lamp Nutraceutical

Sample ID: LNK-L29-B8
Sample Matrix: Kratom powder
Laboratory ID: 21-014617-0008-00
Evidence of Cooling: No
Temp: 16 °C
Relinquished by: UPS

Sample Results

Microbiology

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/15g		12/16/21	AOAC 2020.02 ₁	I
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	12/17/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	100	cfu/g	100	12/17/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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

Report Number: 21-014617/D002.R000
Report Date: 12/21/2021
Purchase Order: andy121321
Received: 12/14/21 11:02 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L29-B8
Sample Matrix: Kratom powder
Laboratory ID: 21-014617-0008-01
Evidence of Cooling: No
Temp: 16 °C
Relinquished by: UPS

Sample Results

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine†	0.0392	%	0.0100	12/17/21	In house method by HPLC-DAD	
Mitragynine†	1.11	%	0.0500	12/17/21	In house method by HPLC-DAD	



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

Report Number: 21-014617/D003.R000
 Report Date: 12/21/2021
 Purchase Order: andy121321
 Received: 12/14/21 11:02 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L29-B9
 Sample Matrix: Kratom powder
 Laboratory ID: 21-014617-0009-00
 Evidence of Cooling: No
 Temp: 16 °C
 Relinquished by: UPS

Sample Results

Microbiology

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		12/16/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	12/17/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	4,100	cfu/g	100	12/17/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



Customer: Lamp Nutraceutical

Sample ID: LNK-L29-B9
Sample Matrix: Kratom powder
Laboratory ID: 21-014617-0009-01
Evidence of Cooling: No
Temp: 16 °C
Relinquished by: UPS

Sample Results

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine†	0.0375	%	0.0100	12/17/21	In house method by HPLC-DAD	
Mitragynine†	1.04	%	0.0500	12/17/21	In house method by HPLC-DAD	



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

Report Number: 21-014617/D003.R000
Report Date: 12/21/2021
Purchase Order: andy121321
Received: 12/14/21 11:02 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L29-B10
Sample Matrix: Kratom powder
Laboratory ID: 21-014617-0010-00
Evidence of Cooling: No
Temp: 16 °C
Relinquished by: UPS

Sample Results

Microbiology

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		12/16/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	12/17/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	2,900	cfu/g	100	12/17/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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

Report Number: 21-014617/D002.R000
Report Date: 12/21/2021
Purchase Order: andy121321
Received: 12/14/21 11:02 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L29-B10
Sample Matrix: Kratom powder
Laboratory ID: 21-014617-0010-01
Evidence of Cooling: No
Temp: 16 °C
Relinquished by: UPS

Sample Results

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine†	0.0213	%	0.0100	12/17/21	In house method by HPLC-DAD	
Mitragynine†	0.951	%	0.0500	12/17/21	In house method by HPLC-DAD	



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

Report Number: 21-014617/D003.R000
Report Date: 12/21/2021
Purchase Order: andy121321
Received: 12/14/21 11:02 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L29-B11
Sample Matrix: Kratom powder
Laboratory ID: 21-014617-0011-00
Evidence of Cooling: No
Temp: 16 °C
Relinquished by: UPS

Sample Results

Microbiology

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		12/16/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	12/17/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	2,700	cfu/g	100	12/17/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



Customer: Lamp Nutraceutical

Sample ID: LNK-L29-B11
Sample Matrix: Kratom powder
Laboratory ID: 21-014617-0011-01
Evidence of Cooling: No
Temp: 16 °C
Relinquished by: UPS

Sample Results

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine†	0.0196	%	0.0100	12/17/21	In house method by HPLC-DAD	
Mitragynine†	1.02	%	0.0500	12/17/21	In house method by HPLC-DAD	



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

Report Number: 21-014617/D003.R000
Report Date: 12/21/2021
Purchase Order: andy121321
Received: 12/14/21 11:02 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L29-B12
Sample Matrix: Kratom powder
Laboratory ID: 21-014617-0012-00
Evidence of Cooling: No
Temp: 16 °C
Relinquished by: UPS

Sample Results

Microbiology

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		12/16/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	12/17/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	3,400	cfu/g	100	12/17/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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

Report Number: 21-014617/D002.R000
Report Date: 12/21/2021
Purchase Order: andy121321
Received: 12/14/21 11:02 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L29-B12
Sample Matrix: Kratom powder
Laboratory ID: 21-014617-0012-01
Evidence of Cooling: No
Temp: 16 °C
Relinquished by: UPS

Sample Results

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine†	0.0177	%	0.0100	12/17/21	In house method by HPLC-DAD	
Mitragynine†	1.14	%	0.0500	12/17/21	In house method by HPLC-DAD	



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

Report Number: 21-014617/D003.R000
Report Date: 12/21/2021
Purchase Order: andy121321
Received: 12/14/21 11:02 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L29-B13
Sample Matrix: Kratom powder
Laboratory ID: 21-014617-0013-00
Evidence of Cooling: No
Temp: 16 °C
Relinquished by: UPS

Sample Results

Microbiology

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		12/16/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	12/17/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	8,400	cfu/g	100	12/17/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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

Report Number: 21-014617/D002.R000
Report Date: 12/21/2021
Purchase Order: andy121321
Received: 12/14/21 11:02 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L29-B13
Sample Matrix: Kratom powder
Laboratory ID: 21-014617-0013-01
Evidence of Cooling: No
Temp: 16 °C
Relinquished by: UPS

Sample Results

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine†	0.0224	%	0.0100	12/17/21	In house method by HPLC-DAD	
Mitragynine†	1.19	%	0.0500	12/17/21	In house method by HPLC-DAD	



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

Report Number: 21-014617/D003.R000
 Report Date: 12/21/2021
 Purchase Order: andy121321
 Received: 12/14/21 11:02 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L29-B14
 Sample Matrix: Kratom powder
 Laboratory ID: 21-014617-0014-00
 Evidence of Cooling: No
 Temp: 16 °C
 Relinquished by: UPS

Sample Results

Microbiology

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		12/16/21	AOAC 2020.02 ₁	

E. coli/Coliform Count (EC) Plate

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	12/17/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	6,800	cfu/g	100	12/17/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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

Report Number: 21-014617/D002.R000
Report Date: 12/21/2021
Purchase Order: andy121321
Received: 12/14/21 11:02 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L29-B14
Sample Matrix: Kratom powder
Laboratory ID: 21-014617-0014-01
Evidence of Cooling: No
Temp: 16 °C
Relinquished by: UPS

Sample Results

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine†	0.0271	%	0.0100	12/17/21	In house method by HPLC-DAD	
Mitragynine†	1.04	%	0.0500	12/17/21	In house method by HPLC-DAD	



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

Report Number: 21-014617/D003.R000
 Report Date: 12/21/2021
 Purchase Order: andy121321
 Received: 12/14/21 11:02 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L29-B15
 Sample Matrix: Kratom powder
 Laboratory ID: 21-014617-0015-00
 Evidence of Cooling: No
 Temp: 16 °C
 Relinquished by: UPS

Sample Results

Microbiology

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		12/16/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	12/17/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	3,400	cfu/g	100	12/17/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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

Report Number: 21-014617/D002.R000
Report Date: 12/21/2021
Purchase Order: andy121321
Received: 12/14/21 11:02 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L29-B15
Sample Matrix: Kratom powder
Laboratory ID: 21-014617-0015-01
Evidence of Cooling: No
Temp: 16 °C
Relinquished by: UPS

Sample Results

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine†	0.0325	%	0.0100	12/17/21	In house method by HPLC-DAD	
Mitragynine†	1.12	%	0.0500	12/17/21	In house method by HPLC-DAD	



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

Report Number: 21-014617/D003.R000
 Report Date: 12/21/2021
 Purchase Order: andy121321
 Received: 12/14/21 11:02 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L29-B16
 Sample Matrix: Kratom powder
 Laboratory ID: 21-014617-0016-00
 Evidence of Cooling: No
 Temp: 16 °C
 Relinquished by: UPS

Sample Results

Microbiology						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		12/16/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	12/17/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	800	cfu/g	100	12/17/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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

Report Number: 21-014617/D002.R000
 Report Date: 12/21/2021
 Purchase Order: andy121321
 Received: 12/14/21 11:02 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L29-B16
 Sample Matrix: Kratom powder
 Laboratory ID: 21-014617-0016-01
 Evidence of Cooling: No
 Temp: 16 °C
 Relinquished by: UPS

Sample Results

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine†	0.0408	%	0.0100	12/17/21	In house method by HPLC-DAD	
Mitragynine†	0.990	%	0.0500	12/17/21	In house method by HPLC-DAD	



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

Report Number: 21-014617/D003.R000
 Report Date: 12/21/2021
 Purchase Order: andy121321
 Received: 12/14/21 11:02 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L29-B17
 Sample Matrix: Kratom powder
 Laboratory ID: 21-014617-0017-00
 Evidence of Cooling: No
 Temp: 16 °C
 Relinquished by: UPS

Sample Results

Microbiology

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		12/17/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	12/18/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	900	cfu/g	100	12/18/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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

Report Number: 21-014617/D002.R000
Report Date: 12/21/2021
Purchase Order: andy121321
Received: 12/14/21 11:02 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L29-B17
Sample Matrix: Kratom powder
Laboratory ID: 21-014617-0017-01
Evidence of Cooling: No
Temp: 16 °C
Relinquished by: UPS

Sample Results

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine†	0.0425	%	0.0100	12/17/21	In house method by HPLC-DAD	
Mitragynine†	1.18	%	0.0500	12/17/21	In house method by HPLC-DAD	



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

Report Number: 21-014617/D003.R000
 Report Date: 12/21/2021
 Purchase Order: andy121321
 Received: 12/14/21 11:02 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L29-B18
 Sample Matrix: Kratom powder
 Laboratory ID: 21-014617-0018-00
 Evidence of Cooling: No
 Temp: 16 °C
 Relinquished by: UPS

Sample Results

Microbiology

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		12/17/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	12/18/21	AOAC 991.14 (Petriefilm)	
Total Coliforms	300	cfu/g	100	12/18/21	AOAC 991.14 (Petriefilm)	

1) GENE-UP® Assay



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

Report Number: 21-014617/D002.R000
Report Date: 12/21/2021
Purchase Order: andy121321
Received: 12/14/21 11:02 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L29-B18
Sample Matrix: Kratom powder
Laboratory ID: 21-014617-0018-01
Evidence of Cooling: No
Temp: 16 °C
Relinquished by: UPS

Sample Results

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine†	0.0499	%	0.0100	12/17/21	In house method by HPLC-DAD	
Mitragynine†	0.952	%	0.0500	12/17/21	In house method by HPLC-DAD	



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

Report Number: 21-014617/D003.R000
Report Date: 12/21/2021
Purchase Order: andy121321
Received: 12/14/21 11:02 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L29-B19
Sample Matrix: Kratom powder
Laboratory ID: 21-014617-0019-00
Evidence of Cooling: No
Temp: 16 °C
Relinquished by: UPS

Sample Results

Microbiology

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		12/17/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	12/18/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	4,600	cfu/g	100	12/18/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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

Report Number: 21-014617/D002.R000
Report Date: 12/21/2021
Purchase Order: andy121321
Received: 12/14/21 11:02 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L29-B19
Sample Matrix: Kratom powder
Laboratory ID: 21-014617-0019-01
Evidence of Cooling: No
Temp: 16 °C
Relinquished by: UPS

Sample Results

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine†	0.0473	%	0.0100	12/17/21	In house method by HPLC-DAD	
Mitragynine†	1.16	%	0.0500	12/17/21	In house method by HPLC-DAD	



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

Report Number: 21-014617/D003.R000
 Report Date: 12/21/2021
 Purchase Order: andy121321
 Received: 12/14/21 11:02 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L29-B20
 Sample Matrix: Kratom powder
 Laboratory ID: 21-014617-0020-00
 Evidence of Cooling: No
 Temp: 16 °C
 Relinquished by: UPS

Sample Results

Microbiology						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		12/17/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	12/18/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	5,300	cfu/g	100	12/18/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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

Report Number: 21-014617/D002.R000
Report Date: 12/21/2021
Purchase Order: andy121321
Received: 12/14/21 11:02 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L29-B20
Sample Matrix: Kratom powder
Laboratory ID: 21-014617-0020-01
Evidence of Cooling: No
Temp: 16 °C
Relinquished by: UPS

Sample Results

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine†	0.0356	%	0.0100	12/17/21	In house method by HPLC-DAD	
Mitragynine†	0.865	%	0.0500	12/17/21	In house method by HPLC-DAD	



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

Report Number: 21-014617/D003.R000
 Report Date: 12/21/2021
 Purchase Order: andy121321
 Received: 12/14/21 11:02 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L29-B21
 Sample Matrix: Kratom powder
 Laboratory ID: 21-014617-0021-00
 Evidence of Cooling: No
 Temp: 16 °C
 Relinquished by: UPS

Sample Results

Microbiology

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		12/17/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	12/18/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	800	cfu/g	100	12/18/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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

Report Number: 21-014617/D002.R000
Report Date: 12/21/2021
Purchase Order: andy121321
Received: 12/14/21 11:02 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L29-B21
Sample Matrix: Kratom powder
Laboratory ID: 21-014617-0021-01
Evidence of Cooling: No
Temp: 16 °C
Relinquished by: UPS

Sample Results

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine†	0.0444	%	0.0100	12/17/21	In house method by HPLC-DAD	
Mitragynine†	0.945	%	0.0500	12/17/21	In house method by HPLC-DAD	



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

Report Number: 21-014617/D003.R000
 Report Date: 12/21/2021
 Purchase Order: andy121321
 Received: 12/14/21 11:02 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L29-B22
 Sample Matrix: Kratom powder
 Laboratory ID: 21-014617-0022-00
 Evidence of Cooling: No
 Temp: 16 °C
 Relinquished by: UPS

Sample Results

Microbiology						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		12/17/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	12/18/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	2,400	cfu/g	100	12/18/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay

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: 21-014617/D002.R000
Report Date: 12/21/2021
Purchase Order: andy121321
Received: 12/14/21 11:02 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L29-B22
Sample Matrix: Kratom powder
Laboratory ID: 21-014617-0022-01
Evidence of Cooling: No
Temp: 16 °C
Relinquished by: UPS

Sample Results

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine†	0.0471	%	0.0100	12/17/21	In house method by HPLC-DAD	
Mitragynine†	1.15	%	0.0500	12/17/21	In house method by HPLC-DAD	



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

Report Number: 21-014617/D003.R000
 Report Date: 12/21/2021
 Purchase Order: andy121321
 Received: 12/14/21 11:02 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L29-B23
 Sample Matrix: Kratom powder
 Laboratory ID: 21-014617-0023-00
 Evidence of Cooling: No
 Temp: 16 °C
 Relinquished by: UPS

Sample Results

Microbiology						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		12/17/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	12/18/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	200	cfu/g	100	12/18/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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

Report Number: 21-014617/D002.R000
Report Date: 12/21/2021
Purchase Order: andy121321
Received: 12/14/21 11:02 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L29-B23
Sample Matrix: Kratom powder
Laboratory ID: 21-014617-0023-01
Evidence of Cooling: No
Temp: 16 °C
Relinquished by: UPS

Sample Results

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine†	0.0331	%	0.0100	12/17/21	In house method by HPLC-DAD	
Mitragynine†	1.18	%	0.0500	12/17/21	In house method by HPLC-DAD	



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

Report Number: 21-014617/D003.R000
Report Date: 12/21/2021
Purchase Order: andy121321
Received: 12/14/21 11:02 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L29-B24
Sample Matrix: Kratom powder
Laboratory ID: 21-014617-0024-00
Evidence of Cooling: No
Temp: 16 °C
Relinquished by: UPS

Sample Results

Microbiology						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		12/17/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	12/18/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	3,100	cfu/g	100	12/18/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay

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: 21-014617/D002.R000
Report Date: 12/21/2021
Purchase Order: andy121321
Received: 12/14/21 11:02 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L29-B24
Sample Matrix: Kratom powder
Laboratory ID: 21-014617-0024-01
Evidence of Cooling: No
Temp: 16 °C
Relinquished by: UPS

Sample Results

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine†	0.0316	%	0.0100	12/17/21	In house method by HPLC-DAD	
Mitragynine†	1.03	%	0.0500	12/17/21	In house method by HPLC-DAD	



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

Report Number: 21-014617/D003.R000
Report Date: 12/21/2021
Purchase Order: andy121321
Received: 12/14/21 11:02 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L29-B25
Sample Matrix: Kratom powder
Laboratory ID: 21-014617-0025-00
Evidence of Cooling: No
Temp: 16 °C
Relinquished by: UPS

Sample Results

Microbiology						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		12/17/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	12/18/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	4,800	cfu/g	100	12/18/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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

Report Number: 21-014617/D002.R000
Report Date: 12/21/2021
Purchase Order: andy121321
Received: 12/14/21 11:02 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L29-B25
Sample Matrix: Kratom powder
Laboratory ID: 21-014617-0025-01
Evidence of Cooling: No
Temp: 16 °C
Relinquished by: UPS

Sample Results

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine†	0.0279	%	0.0100	12/17/21	In house method by HPLC-DAD	
Mitragynine†	0.853	%	0.0500	12/17/21	In house method by HPLC-DAD	



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

Report Number: 21-014617/D003.R000
Report Date: 12/21/2021
Purchase Order: andy121321
Received: 12/14/21 11:02 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L29-B26
Sample Matrix: Kratom powder
Laboratory ID: 21-014617-0026-00
Evidence of Cooling: No
Temp: 16 °C
Relinquished by: UPS

Sample Results

Microbiology						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/15g		12/17/21	AOAC 2020.02 ₁	I
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	12/18/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	1,300	cfu/g	100	12/18/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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

Report Number: 21-014617/D002.R000
Report Date: 12/21/2021
Purchase Order: andy121321
Received: 12/14/21 11:02 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L29-B26
Sample Matrix: Kratom powder
Laboratory ID: 21-014617-0026-01
Evidence of Cooling: No
Temp: 16 °C
Relinquished by: UPS

Sample Results

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine†	0.0323	%	0.0100	12/17/21	In house method by HPLC-DAD	
Mitragynine†	1.10	%	0.0500	12/17/21	In house method by HPLC-DAD	



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

Report Number: 21-014617/D003.R000
Report Date: 12/21/2021
Purchase Order: andy121321
Received: 12/14/21 11:02 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L29-B27
Sample Matrix: Kratom powder
Laboratory ID: 21-014617-0027-00
Evidence of Cooling: No
Temp: 16 °C
Relinquished by: UPS

Sample Results

Microbiology						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		12/17/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	12/18/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	200	cfu/g	100	12/18/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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

Report Number: 21-014617/D002.R000
Report Date: 12/21/2021
Purchase Order: andy121321
Received: 12/14/21 11:02 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L29-B27
Sample Matrix: Kratom powder
Laboratory ID: 21-014617-0027-01
Evidence of Cooling: No
Temp: 16 °C
Relinquished by: UPS

Sample Results

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine†	0.0333	%	0.0100	12/17/21	In house method by HPLC-DAD	
Mitragynine†	1.06	%	0.0500	12/17/21	In house method by HPLC-DAD	



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

Report Number: 21-014617/D003.R000
Report Date: 12/21/2021
Purchase Order: andy121321
Received: 12/14/21 11:02 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L29-B28
Sample Matrix: Kratom powder
Laboratory ID: 21-014617-0028-00
Evidence of Cooling: No
Temp: 16 °C
Relinquished by: UPS

Sample Results

Microbiology						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		12/17/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	12/18/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	600	cfu/g	100	12/18/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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

Report Number: 21-014617/D002.R000
Report Date: 12/21/2021
Purchase Order: andy121321
Received: 12/14/21 11:02 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L29-B28
Sample Matrix: Kratom powder
Laboratory ID: 21-014617-0028-01
Evidence of Cooling: No
Temp: 16 °C
Relinquished by: UPS

Sample Results

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine†	0.0425	%	0.0100	12/17/21	In house method by HPLC-DAD	
Mitragynine†	1.13	%	0.0500	12/17/21	In house method by HPLC-DAD	



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

Report Number: 21-014617/D003.R000
Report Date: 12/21/2021
Purchase Order: andy121321
Received: 12/14/21 11:02 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L29-B29
Sample Matrix: Kratom powder
Laboratory ID: 21-014617-0029-00
Evidence of Cooling: No
Temp: 16 °C
Relinquished by: UPS

Sample Results

Microbiology						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		12/17/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	12/18/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	< LOQ	cfu/g	100	12/18/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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

Report Number: 21-014617/D002.R000
 Report Date: 12/21/2021
 Purchase Order: andy121321
 Received: 12/14/21 11:02 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L29-B29
 Sample Matrix: Kratom powder
 Laboratory ID: 21-014617-0029-01
 Evidence of Cooling: No
 Temp: 16 °C
 Relinquished by: UPS

Sample Results

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine†	0.0370	%	0.0100	12/17/21	In house method by HPLC-DAD	
Mitragynine†	1.31	%	0.0500	12/17/21	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.



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

Report Number: 21-014617/D003.R000
Report Date: 12/21/2021
Purchase Order: andy121321
Received: 12/14/21 11:02 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L29-B30
Sample Matrix: Kratom powder
Laboratory ID: 21-014617-0030-00
Evidence of Cooling: No
Temp: 16 °C
Relinquished by: UPS

Sample Results

Microbiology						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		12/17/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	12/18/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	3,500	cfu/g	100	12/18/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay

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: 21-014617/D002.R000
Report Date: 12/21/2021
Purchase Order: andy121321
Received: 12/14/21 11:02 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L29-B30
Sample Matrix: Kratom powder
Laboratory ID: 21-014617-0030-01
Evidence of Cooling: No
Temp: 16 °C
Relinquished by: UPS

Sample Results

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine†	0.0496	%	0.0100	12/17/21	In house method by HPLC-DAD	
Mitragynine†	0.916	%	0.0500	12/17/21	In house method by HPLC-DAD	



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

Report Number: 21-014617/D003.R000
Report Date: 12/21/2021
Purchase Order: andy121321
Received: 12/14/21 11:02 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L29-B31
Sample Matrix: Kratom powder
Laboratory ID: 21-014617-0031-00
Evidence of Cooling: No
Temp: 16 °C
Relinquished by: UPS

Sample Results

Microbiology

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		12/17/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E. coli	< LOQ	cfu/g	100	12/18/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	700	cfu/g	100	12/18/21	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: 21-014617/D002.R000
Report Date: 12/21/2021
Purchase Order: andy121321
Received: 12/14/21 11:02 AM



Customer: Lamp Nutraceutical

Sample ID: LNK-L29-B31
Sample Matrix: Kratom powder
Laboratory ID: 21-014617-0031-01
Evidence of Cooling: No
Temp: 16 °C
Relinquished by: UPS

Sample Results

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine†	0.0449	%	0.0100	12/17/21	In house method by HPLC-DAD	
Mitragynine†	1.01	%	0.0500	12/17/21	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