



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

Report Number: 21-008903/D002.R000
Report Date: 08/10/2021
Purchase Order:
Received: 08/03/21 10:45 AM

Project Number: Lot 25



Customer: Lamp Nutraceutical

Sample ID: LNK-L25-B7
Sample Matrix: Kratom powder
Laboratory ID: 21-008903-0007-01
Evidence of Cooling: No
Temp: 24 °C
Relinquished by: UPS

Sample Results

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine ¹	0.0447	%	0.0100	08/06/21	In house method by HPLC-DAD	N1
Mitragynine ¹	0.832	%	0.0500	08/06/21	In house method by HPLC-DAD	

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Report Number: 21-008903/D002.R000
Report Date: 08/10/2021
Purchase Order:
Received: 08/03/21 10:45 AM

Project Number: Lot 25



Customer: Lamp Nutraceutical

Sample ID: LNK-L25-B8
Sample Matrix: Kratom powder
Laboratory ID: 21-008903-0008-00
Evidence of Cooling: No
Temp: 24 °C
Relinquished by: UPS

Sample Results

Microbiology

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		08/06/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	08/07/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	70,000	cfu/g	1,000	08/07/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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Project Number: Lot 25

Customer: Lamp Nutraceutical

Sample ID: LNK-L25-B8
Sample Matrix: Kratom powder
Laboratory ID: 21-008903-0008-01
Evidence of Cooling: No
Temp: 24 °C
Relinquished by: UPS

Sample Results

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine'	0.0623	%	0.0100	08/06/21	In house method by HPLC-DAD	
Mitragynine'	1.10	%	0.0500	08/06/21	In house method by HPLC-DAD	



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Project Number: Lot 25

Customer: Lamp Nutraceutical

Sample ID: LNK-L25-B9
Sample Matrix: Kratom powder
Laboratory ID: 21-008903-0009-00
Evidence of Cooling: No
Temp: 24 °C
Relinquished by: UPS

Sample Results

Microbiology

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		08/06/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	08/07/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	6,600	cfu/g	100	08/07/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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Project Number: Lot 25



Customer: Lamp Nutraceutical

Sample ID: LNK-L25-B9
Sample Matrix: Kratom powder
Laboratory ID: 21-008903-0009-01
Evidence of Cooling: No
Temp: 24 °C
Relinquished by: UPS

Sample Results

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine ¹	0.0492	%	0.0100	08/06/21	In house method by HPLC-DAD	
Mitragynine ¹	1.00	%	0.0500	08/06/21	In house method by HPLC-DAD	

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Report Number: 21-008903/D002.R000
Report Date: 08/10/2021
Purchase Order:
Received: 08/03/21 10:45 AM



Project Number: Lot 25

Customer: Lamp Nutraceutical

Sample ID: LNK-L25-B10
Sample Matrix: Kratom powder
Laboratory ID: 21-008903-0010-00
Evidence of Cooling: No
Temp: 24 °C
Relinquished by: UPS

Sample Results

Microbiology

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		08/06/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	08/07/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	5,300	cfu/g	100	08/07/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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Project Number: Lot 25

Customer: Lamp Nutraceutical

Sample ID: LNK-L25-B10
Sample Matrix: Kratom powder
Laboratory ID: 21-008903-0010-01
Evidence of Cooling: No
Temp: 24 °C
Relinquished by: UPS

Sample Results

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine ¹	0.0187	%	0.0100	08/06/21	In house method by HPLC-DAD	
Mitragynine ¹	0.853	%	0.0500	08/06/21	In house method by HPLC-DAD	

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Project Number: Lot 25

Customer: Lamp Nutraceutical

Sample ID: LNK-L25-B11
Sample Matrix: Kratom powder
Laboratory ID: 21-008903-0011-00
Evidence of Cooling: No
Temp: 24 °C
Relinquished by: UPS

Sample Results

Microbiology

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		08/06/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	08/07/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	15,000	cfu/g	1,000	08/07/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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Project Number: Lot 25

Customer: Lamp Nutraceutical

Sample ID: LNK-L25-B11
Sample Matrix: Kratom powder
Laboratory ID: 21-008903-0011-01
Evidence of Cooling: No
Temp: 24 °C
Relinquished by: UPS

Sample Results

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine [†]	0.0397	%	0.0100	08/06/21	In house method by HPLC-DAD	N1
Mitragynine [†]	0.802	%	0.0500	08/06/21	In house method by HPLC-DAD	

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Project Number: Lot 25

Customer: Lamp Nutraceutical

Sample ID: LNK-L25-B12
Sample Matrix: Kratom powder
Laboratory ID: 21-008903-0012-00
Evidence of Cooling: No
Temp: 24 °C
Relinquished by: UPS

Sample Results

Microbiology

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		08/06/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	08/07/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	2,300	cfu/g	100	08/07/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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Project Number: Lot 25

Customer: Lamp Nutraceutical

Sample ID: LNK-L25-B12
Sample Matrix: Kratom powder
Laboratory ID: 21-008903-0012-01
Evidence of Cooling: No
Temp: 24 °C
Relinquished by: UPS

Sample Results

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine [†]	0.0406	%	0.0100	08/06/21	In house method by HPLC-DAD	
Mitragynine [†]	1.13	%	0.0500	08/06/21	In house method by HPLC-DAD	

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Project Number: Lot 25

Customer: Lamp Nutraceutical

Sample ID: LNK-L25-B13
Sample Matrix: Kratom powder
Laboratory ID: 21-008903-0013-00
Evidence of Cooling: No
Temp: 24 °C
Relinquished by: UPS

Sample Results

Microbiology

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		08/06/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	08/07/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	2,900	cfu/g	100	08/07/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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Project Number: Lot 25

Customer: Lamp Nutraceutical

Sample ID: LNK-L25-B13
Sample Matrix: Kratom powder
Laboratory ID: 21-008903-0013-01
Evidence of Cooling: No
Temp: 24 °C
Relinquished by: UPS

Sample Results

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine'	0.0380	%	0.0100	08/06/21	In house method by HPLC-DAD	N1
Mitragynine'	0.852	%	0.0500	08/06/21	In house method by HPLC-DAD	



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Project Number: Lot 25

Customer: Lamp Nutraceutical

Sample ID: LNK-L25-B14
Sample Matrix: Kratom powder
Laboratory ID: 21-008903-0014-00
Evidence of Cooling: No
Temp: 24 °C
Relinquished by: UPS

Sample Results

Microbiology

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		08/06/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	08/07/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	6,900	cfu/g	100	08/07/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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Project Number: Lot 25

Customer: Lamp Nutraceutical

Sample ID: LNK-L25-B14
Sample Matrix: Kratom powder
Laboratory ID: 21-008903-0014-01
Evidence of Cooling: No
Temp: 24 °C
Relinquished by: UPS

Sample Results

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine ¹	0.0418	%	0.0100	08/06/21	In house method by HPLC-DAD	
Mitragynine ¹	1.03	%	0.0500	08/06/21	In house method by HPLC-DAD	

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Project Number: Lot 25



Customer: Lamp Nutraceutical

Sample ID: LNK-L25-B15
Sample Matrix: Kratom powder
Laboratory ID: 21-008903-0015-00
Evidence of Cooling: No
Temp: 24 °C
Relinquished by: UPS

Sample Results

Microbiology

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		08/06/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	08/07/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	190,000	cfu/g	10,000	08/07/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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Project Number: Lot 25

Customer: Lamp Nutraceutical

Sample ID: LNK-L25-B15
Sample Matrix: Kratom powder
Laboratory ID: 21-008903-0015-01
Evidence of Cooling: No
Temp: 24 °C
Relinquished by: UPS

Sample Results

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine ¹	0.0550	%	0.0100	08/06/21	In house method by HPLC-DAD	
Mitragynine ¹	0.973	%	0.0500	08/06/21	In house method by HPLC-DAD	



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Project Number: Lot 25

Customer: Lamp Nutraceutical

Sample ID: LNK-L25-B16
Sample Matrix: Kratom powder
Laboratory ID: 21-008903-0016-00
Evidence of Cooling: No
Temp: 24 °C
Relinquished by: UPS

Sample Results

Microbiology

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		08/06/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	08/07/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	53,000	cfu/g	1,000	08/07/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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Project Number: Lot 25

Customer: Lamp Nutraceutical

Sample ID: LNK-L25-B16
Sample Matrix: Kratom powder
Laboratory ID: 21-008903-0016-01
Evidence of Cooling: No
Temp: 24 °C
Relinquished by: UPS

Sample Results

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine [†]	0.0553	%	0.0100	08/06/21	In house method by HPLC-DAD	
Mitragynine [†]	1.15	%	0.0500	08/06/21	In house method by HPLC-DAD	



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Project Number: Lot 25

Customer: Lamp Nutraceutical

Sample ID: LNK-L25-B17
Sample Matrix: Kratom powder
Laboratory ID: 21-008903-0017-00
Evidence of Cooling: No
Temp: 24 °C
Relinquished by: UPS

Sample Results

Microbiology

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		08/06/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	08/07/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	6,400	cfu/g	100	08/07/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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Project Number: Lot 25

Customer: Lamp Nutraceutical

Sample ID: LNK-L25-B17
Sample Matrix: Kratom powder
Laboratory ID: 21-008903-0017-01
Evidence of Cooling: No
Temp: 24 °C
Relinquished by: UPS

Sample Results

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine'	0.0237	%	0.0100	08/09/21	In house method by HPLC-DAD	
Mitragynine'	0.564	%	0.0500	08/09/21	In house method by HPLC-DAD	



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Project Number: Lot 25

Customer: Lamp Nutraceutical

Sample ID: LNK-L25-B18
Sample Matrix: Kratom powder
Laboratory ID: 21-008903-0018-00
Evidence of Cooling: No
Temp: 24 °C
Relinquished by: UPS

Sample Results

Microbiology

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		08/06/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	08/07/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	430,000	cfu/g	10,000	08/07/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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Project Number: Lot 25

Customer: Lamp Nutraceutical

Sample ID: LNK-L25-B18
Sample Matrix: Kratom powder
Laboratory ID: 21-008903-0018-01
Evidence of Cooling: No
Temp: 24 °C
Relinquished by: UPS

Sample Results

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine'	0.0437	%	0.0100	08/09/21	In house method by HPLC-DAD	
Mitragynine'	0.961	%	0.0500	08/09/21	In house method by HPLC-DAD	

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Project Number: Lot 25

Customer: Lamp Nutraceutical

Sample ID: LNK-L25-B19
Sample Matrix: Kratom powder
Laboratory ID: 21-008903-0019-00
Evidence of Cooling: No
Temp: 24 °C
Relinquished by: UPS

Sample Results

Microbiology

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		08/06/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	08/07/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	2,400	cfu/g	100	08/07/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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Project Number: Lot 25

Customer: Lamp Nutraceutical

Sample ID: LNK-L25-B19
Sample Matrix: Kratom powder
Laboratory ID: 21-008903-0019-01
Evidence of Cooling: No
Temp: 24 °C
Relinquished by: UPS

Sample Results

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine ¹	0.0323	%	0.0100	08/09/21	In house method by HPLC-DAD	
Mitragynine ¹	1.19	%	0.0500	08/09/21	In house method by HPLC-DAD	

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Project Number: Lot 25



Customer: Lamp Nutraceutical

Sample ID: LNK-L25-B20
Sample Matrix: Kratom powder
Laboratory ID: 21-008903-0020-00
Evidence of Cooling: No
Temp: 24 °C
Relinquished by: UPS

Sample Results

Microbiology

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		08/06/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	08/07/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	8,200	cfu/g	100	08/07/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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 503-254-1794

Report Number: 21-008903/D002.R000
Report Date: 08/10/2021
Purchase Order:
Received: 08/03/21 10:45 AM

Project Number: Lot 25



Customer: Lamp Nutraceutical

Sample ID: LNK-L25-B20
Sample Matrix: Kratom powder
Laboratory ID: 21-008903-0020-01
Evidence of Cooling: No
Temp: 24 °C
Relinquished by: UPS

Sample Results

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine'	0.0112	%	0.0100	08/09/21	In house method by HPLC-DAD	
Mitragynine'	0.270	%	0.0500	08/09/21	In house method by HPLC-DAD	



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Report Number: 21-008903/D002.R000
Report Date: 08/10/2021
Purchase Order:
Received: 08/03/21 10:45 AM



Project Number: Lot 25

Customer: Lamp Nutraceutical

Sample ID: LNK-L25-B21
Sample Matrix: Kratom powder
Laboratory ID: 21-008903-0021-00
Evidence of Cooling: No
Temp: 24 °C
Relinquished by: UPS

Sample Results

Microbiology

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		08/06/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	08/07/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	3,700	cfu/g	100	08/07/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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Report Date: 08/10/2021
Purchase Order:
Received: 08/03/21 10:45 AM



Project Number: Lot 25

Customer: Lamp Nutraceutical

Sample ID: LNK-L25-B21
Sample Matrix: Kratom powder
Laboratory ID: 21-008903-0021-01
Evidence of Cooling: No
Temp: 24 °C
Relinquished by: UPS

Sample Results

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine'	0.0211	%	0.0100	08/09/21	In house method by HPLC-DAD	
Mitragynine'	0.608	%	0.0500	08/09/21	In house method by HPLC-DAD	



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Report Number: 21-008903/D002.R000
Report Date: 08/10/2021
Purchase Order:
Received: 08/03/21 10:45 AM
Project Number: Lot 25

Customer: Lamp Nutraceutical

Sample ID: LNK-L25-B22
Sample Matrix: Kratom powder
Laboratory ID: 21-008903-0022-00
Evidence of Cooling: No
Temp: 24 °C
Relinquished by: UPS

Sample Results

Microbiology

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		08/06/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	08/07/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	4,500	cfu/g	100	08/07/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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Report Number: 21-008903/D002.R000
Report Date: 08/10/2021
Purchase Order:
Received: 08/03/21 10:45 AM
Project Number: Lot 25

Customer: Lamp Nutraceutical

Sample ID: LNK-L25-B22
Sample Matrix: Kratom powder
Laboratory ID: 21-008903-0022-01
Evidence of Cooling: No
Temp: 24 °C
Relinquished by: UPS

Sample Results

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine ¹	0.0211	%	0.0100	08/09/21	In house method by HPLC-DAD	
Mitragynine ¹	0.647	%	0.0500	08/09/21	In house method by HPLC-DAD	



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Purchase Order:
Received: 08/03/21 10:45 AM
Project Number: Lot 25

Customer: Lamp Nutraceutical

Sample ID: LNK-L25-B23
Sample Matrix: Kratom powder
Laboratory ID: 21-008903-0023-00
Evidence of Cooling: No
Temp: 24 °C
Relinquished by: UPS

Sample Results

Microbiology

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		08/06/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	08/07/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	30,000	cfu/g	1,000	08/07/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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Report Number: 21-008903/D002.R000
Report Date: 08/10/2021
Purchase Order:
Received: 08/03/21 10:45 AM

Project Number: Lot 25

Customer: Lamp Nutraceutical

Sample ID: LNK-L25-B23
Sample Matrix: Kratom powder
Laboratory ID: 21-008903-0023-01
Evidence of Cooling: No
Temp: 24 °C
Relinquished by: UPS

Sample Results

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine ¹	0.0169	%	0.0100	08/09/21	In house method by HPLC-DAD	
Mitragynine ¹	0.833	%	0.0500	08/09/21	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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Report Number: 21-008903/D002.R000
Report Date: 08/10/2021
Purchase Order:
Received: 08/03/21 10:45 AM
Project Number: Lot 25

Customer: Lamp Nutraceutical

Sample ID: LNK-L25-B24
Sample Matrix: Kratom powder
Laboratory ID: 21-008903-0024-00
Evidence of Cooling: No
Temp: 24 °C
Relinquished by: UPS

Sample Results

Microbiology

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		08/06/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E. coli	< LOQ	cfu/g	100	08/07/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	51,000	cfu/g	1,000	08/07/21	AOAC 991.14 (Petrifilm)	

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Report Number: 21-008903/D002.R000
Report Date: 08/10/2021
Purchase Order:
Received: 08/03/21 10:45 AM
Project Number: Lot 25

Customer: Lamp Nutraceutical

Sample ID: LNK-L25-B24
Sample Matrix: Kratom powder
Laboratory ID: 21-008903-0024-01
Evidence of Cooling: No
Temp: 24 °C
Relinquished by: UPS

Sample Results

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine ¹	0.0457	%	0.0100	08/09/21	In house method by HPLC-DAD	
Mitragynine ¹	1.33	%	0.0500	08/09/21	In house method by HPLC-DAD	



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Report Date: 08/10/2021
Purchase Order:
Received: 08/03/21 10:45 AM
Project Number: Lot 25



Customer: Lamp Nutraceutical

Sample ID: LNK-L25-B25
Sample Matrix: Kratom powder
Laboratory ID: 21-008903-0025-00
Evidence of Cooling: No
Temp: 24 °C
Relinquished by: UPS

Sample Results

Microbiology

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		08/06/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E. coli	< LOQ	cfu/g	100	08/07/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	11,000	cfu/g	1,000	08/07/21	AOAC 991.14 (Petrifilm)	

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Report Number: 21-008903/D002.R000
Report Date: 08/10/2021
Purchase Order:
Received: 08/03/21 10:45 AM
Project Number: Lot 25

Customer: Lamp Nutraceutical

Sample ID: LNK-L25-B25
Sample Matrix: Kratom powder
Laboratory ID: 21-008903-0025-01
Evidence of Cooling: No
Temp: 24 °C
Relinquished by: UPS

Sample Results

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine [†]	0.0447	%	0.0100	08/09/21	In house method by HPLC-DAD	
Mitragynine [†]	1.25	%	0.0500	08/09/21	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.

Glossary of Qualifiers

NI: See case narrative.
[†] = 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