



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

Report Number: 21-004769/D03.R00
Report Date: 05/07/2021
Purchase Order:
Received: 04/29/21 11:42 AM



Customer: Lamp Nutraceutical

Sample ID: LNK23 B1
Sample Matrix: Kratom powder
Laboratory ID: 21-004769-0001-01
Evidence of Cooling: No
Temp: 22 °C
Relinquished by: UPS

Sample Results

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine ¹	0.0435	%	0.0100	05/06/21	In house method by HPLC-DAD	
Mitragynine ¹	0.912	%	0.0500	05/06/21	In house method by HPLC-DAD	



12423 NE Whitaker Way
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Report Number: 21-004769/D02.R00
Report Date: 05/07/2021
Purchase Order:
Received: 04/29/21 11:42 AM



Customer: Lamp Nutraceutical

Sample ID: LNK23 B1
Sample Matrix: Kratom powder
Laboratory ID: 21-004769-0001-00
Evidence of Cooling: No
Temp: 22 °C
Relinquished by: UPS

Sample Results

Microbiology						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		05/02/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	05/03/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	39,000	cfu/g	1,000	05/03/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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Report Number: 21-004769/D03.R00
Report Date: 05/07/2021
Purchase Order:
Received: 04/29/21 11:42 AM



Customer: Lamp Nutraceutical

Sample ID: LNK23 B2
Sample Matrix: Kratom powder
Laboratory ID: 21-004769-0002-01
Evidence of Cooling: No
Temp: 22 °C
Relinquished by: UPS

Sample Results

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine [†]	0.0410	%	0.0100	05/06/21	In house method by HPLC-DAD	
Mitragynine [†]	1.10	%	0.0500	05/06/21	In house method by HPLC-DAD	

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Customer: Lamp Nutraceutical

Sample ID: LNK23 B2
Sample Matrix: Kratom powder
Laboratory ID: 21-004769-0002-00
Evidence of Cooling: No
Temp: 22 °C
Relinquished by: UPS

Sample Results

Microbiology

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		05/02/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	05/03/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	1,000	cfu/g	100	05/03/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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Report Number: 21-004769/D03.R00
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Customer: Lamp Nutraceutical

Sample ID: LNK23 B3
Sample Matrix: Kratom powder
Laboratory ID: 21-004769-0003-01
Evidence of Cooling: No
Temp: 22 °C
Relinquished by: UPS

Sample Results

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine [†]	0.0373	%	0.0100	05/06/21	In house method by HPLC-DAD	
Mitragynine [†]	1.04	%	0.0500	05/06/21	In house method by HPLC-DAD	

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Customer: Lamp Nutraceutical

Sample ID: LNK23 B3
Sample Matrix: Kratom powder
Laboratory ID: 21-004769-0003-00
Evidence of Cooling: No
Temp: 22 °C
Relinquished by: UPS

Sample Results

Microbiology

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		05/02/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	05/03/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	300	cfu/g	100	05/03/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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Report Number: 21-004769/D03.R00
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Purchase Order:
Received: 04/29/21 11:42 AM



Customer: Lamp Nutraceutical

Sample ID: LNK23 B4
Sample Matrix: Kratom powder
Laboratory ID: 21-004769-0004-01
Evidence of Cooling: No
Temp: 22 °C
Relinquished by: UPS

Sample Results

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine [†]	0.0536	%	0.0100	05/06/21	In house method by HPLC-DAD	
Mitragynine [†]	1.17	%	0.0500	05/06/21	In house method by HPLC-DAD	

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Customer: Lamp Nutraceutical

Sample ID: LNK23 B4
Sample Matrix: Kratom powder
Laboratory ID: 21-004769-0004-00
Evidence of Cooling: No
Temp: 22 °C
Relinquished by: UPS

Sample Results

Microbiology

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		05/02/21	AOAC 2020.02 ₁	

E. coli/Coliform Count (EC) Plate

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	05/03/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	6,000	cfu/g	1,000	05/03/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



12423 NE Whitaker Way
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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: LNK23 ⁵ST2
Sample Matrix: Kratom powder
Laboratory ID: 21-006307-0011-00
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†	0.0333	%	0.0100	06/14/21	In house method by HPLC-DAD	
Mitragynine†	1.41	%	0.0500	06/14/21	In house method by HPLC-DAD	



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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: LNK23 ⁵ST2
 Sample Matrix: Kratom powder
 Laboratory ID: 21-006307-0011-01
 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	< LOQ	cfu/g	100	06/11/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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Report Number: 21-004769/D03.R00
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Customer: Lamp Nutraceutical

Sample ID: LNK23 B6
Sample Matrix: Kratom powder
Laboratory ID: 21-004769-0006-01
Evidence of Cooling: No
Temp: 22 °C
Relinquished by: UPS

Sample Results

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine ¹	0.0522	%	0.0100	05/06/21	In house method by HPLC-DAD	
Mitragynine ¹	1.00	%	0.0500	05/06/21	In house method by HPLC-DAD	

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Customer: Lamp Nutraceutical

Sample ID: LNK23 B6
Sample Matrix: Kratom powder
Laboratory ID: 21-004769-0006-00
Evidence of Cooling: No
Temp: 22 °C
Relinquished by: UPS

Sample Results

Microbiology

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		05/02/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	05/03/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	10,000	cfu/g	1,000	05/03/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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Customer: Lamp Nutraceutical

Sample ID: LNK23 B7
Sample Matrix: Kratom powder
Laboratory ID: 21-004769-0007-01
Evidence of Cooling: No
Temp: 22 °C
Relinquished by: UPS

Sample Results

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine ¹	0.0450	%	0.0100	05/06/21	In house method by HPLC-DAD	
Mitragynine ¹	1.03	%	0.0500	05/06/21	In house method by HPLC-DAD	

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Customer: Lamp Nutraceutical

Sample ID: LNK23 B7
Sample Matrix: Kratom powder
Laboratory ID: 21-004769-0007-00
Evidence of Cooling: No
Temp: 22 °C
Relinquished by: UPS

Sample Results

Microbiology

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		05/02/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	05/03/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	11,000	cfu/g	1,000	05/03/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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Report Number: 21-004769/D03.R00
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Purchase Order:
Received: 04/29/21 11:42 AM



Customer: Lamp Nutraceutical

Sample ID: LNK23 B8
Sample Matrix: Kratom powder
Laboratory ID: 21-004769-0008-01
Evidence of Cooling: No
Temp: 22 °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	05/06/21	In house method by HPLC-DAD	
Mitragynine†	0.979	%	0.0500	05/06/21	In house method by HPLC-DAD	

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Report Number: 21-004769/D02.R00
Report Date: 05/07/2021
Purchase Order:
Received: 04/29/21 11:42 AM



Customer: Lamp Nutraceutical

Sample ID: LNK23 B8
Sample Matrix: Kratom powder
Laboratory ID: 21-004769-0008-00
Evidence of Cooling: No
Temp: 22 °C
Relinquished by: UPS

Sample Results

Microbiology

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		05/02/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E. coli	< LOQ	cfu/g	100	05/03/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	16,000	cfu/g	1,000	05/03/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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Report Number: 21-004769/D03.R00
Report Date: 05/07/2021
Purchase Order:
Received: 04/29/21 11:42 AM



Customer: Lamp Nutraceutical

Sample ID: LNK23 B9
Sample Matrix: Kratom powder
Laboratory ID: 21-004769-0009-01
Evidence of Cooling: No
Temp: 22 °C
Relinquished by: UPS

Sample Results

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine [†]	0.0457	%	0.0100	05/06/21	In house method by HPLC-DAD	
Mitragynine [†]	0.739	%	0.0500	05/06/21	In house method by HPLC-DAD	

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Purchase Order:
Received: 04/29/21 11:42 AM



Customer: Lamp Nutraceutical

Sample ID: LNK23 B9
Sample Matrix: Kratom powder
Laboratory ID: 21-004769-0009-00
Evidence of Cooling: No
Temp: 22 °C
Relinquished by: UPS

Sample Results

Microbiology

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		05/02/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	05/03/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	210,000	cfu/g	10,000	05/03/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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Report Number: 21-004769/D03.R00
Report Date: 05/07/2021
Purchase Order:
Received: 04/29/21 11:42 AM



Customer: Lamp Nutraceutical

Sample ID: LNK23 B10
Sample Matrix: Kratom powder
Laboratory ID: 21-004769-0010-01
Evidence of Cooling: No
Temp: 22 °C
Relinquished by: UPS

Sample Results

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine [†]	0.0422	%	0.0100	05/06/21	In house method by HPLC-DAD	
Mitragynine [†]	0.996	%	0.0500	05/06/21	In house method by HPLC-DAD	



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Customer: Lamp Nutraceutical

Sample ID: LNK23 B10
Sample Matrix: Kratom powder
Laboratory ID: 21-004769-0010-00
Evidence of Cooling: No
Temp: 22 °C
Relinquished by: UPS

Sample Results

Microbiology

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		05/02/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	05/03/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	7,000	cfu/g	1,000	05/03/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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Report Number: 21-004769/D03.R00
Report Date: 05/07/2021
Purchase Order:
Received: 04/29/21 11:42 AM



Customer: Lamp Nutraceutical

Sample ID: LNK23 B11
Sample Matrix: Kratom powder
Laboratory ID: 21-004769-0011-01
Evidence of Cooling: No
Temp: 22 °C
Relinquished by: UPS

Sample Results

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine [†]	0.0296	%	0.0100	05/06/21	In house method by HPLC-DAD	
Mitragynine [†]	1.03	%	0.0500	05/06/21	In house method by HPLC-DAD	

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Customer: Lamp Nutraceutical

Sample ID: LNK23 B11
Sample Matrix: Kratom powder
Laboratory ID: 21-004769-0011-00
Evidence of Cooling: No
Temp: 22 °C
Relinquished by: UPS

Sample Results

Microbiology

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		05/02/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	05/03/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	300	cfu/g	100	05/03/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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Report Number: 21-004769/D03.R00
Report Date: 05/07/2021
Purchase Order:
Received: 04/29/21 11:42 AM



Customer: Lamp Nutraceutical

Sample ID: LNK23 B12
Sample Matrix: Kratom powder
Laboratory ID: 21-004769-0012-01
Evidence of Cooling: No
Temp: 22 °C
Relinquished by: UPS

Sample Results

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine ¹	0.0373	%	0.0100	05/06/21	In house method by HPLC-DAD	
Mitragynine ¹	1.05	%	0.0500	05/06/21	In house method by HPLC-DAD	

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Purchase Order:
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Customer: Lamp Nutraceutical

Sample ID: LNK23 B12
Sample Matrix: Kratom powder
Laboratory ID: 21-004769-0012-00
Evidence of Cooling: No
Temp: 22 °C
Relinquished by: UPS

Sample Results

Microbiology						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		05/02/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	05/03/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	2,000	cfu/g	100	05/03/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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Customer: Lamp Nutraceutical

Sample ID: LNK23 B13
Sample Matrix: Kratom powder
Laboratory ID: 21-004769-0013-01
Evidence of Cooling: No
Temp: 22 °C
Relinquished by: UPS

Sample Results

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine ¹	0.0317	%	0.0100	05/06/21	In house method by HPLC-DAD	
Mitragynine ¹	0.941	%	0.0500	05/06/21	In house method by HPLC-DAD	

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Customer: Lamp Nutraceutical

Sample ID: LNK23 B13
Sample Matrix: Kratom powder
Laboratory ID: 21-004769-0013-00
Evidence of Cooling: No
Temp: 22 °C
Relinquished by: UPS

Sample Results

Microbiology

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		05/02/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	05/03/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	22,000	cfu/g	1,000	05/03/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay

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 Portland, OR 97230
 503-254-1794

Report Number: 21-004769/D03.R00
Report Date: 05/07/2021
Purchase Order:
Received: 04/29/21 11:42 AM



Customer: Lamp Nutraceutical

Sample ID: LNK23 B14
Sample Matrix: Kratom powder
Laboratory ID: 21-004769-0014-01
Evidence of Cooling: No
Temp: 22 °C
Relinquished by: UPS

Sample Results

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine [†]	0.0329	%	0.0100	05/06/21	In house method by HPLC-DAD	
Mitragynine [†]	1.04	%	0.0500	05/06/21	In house method by HPLC-DAD	

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12423 NE Whitaker Way
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Report Number: 21-004769/D02.R00
Report Date: 05/07/2021
Purchase Order:
Received: 04/29/21 11:42 AM



Customer: Lamp Nutraceutical

Sample ID: LNK23 B14
Sample Matrix: Kratom powder
Laboratory ID: 21-004769-0014-00
Evidence of Cooling: No
Temp: 22 °C
Relinquished by: UPS

Sample Results

Microbiology

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		05/02/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	05/03/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	10,000	cfu/g	1,000	05/03/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay

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Report Number: 21-004769/D03.R00
Report Date: 05/07/2021
Purchase Order:
Received: 04/29/21 11:42 AM



Customer: Lamp Nutraceutical

Sample ID: LNK23 B15
Sample Matrix: Kratom powder
Laboratory ID: 21-004769-0015-01
Evidence of Cooling: No
Temp: 22 °C
Relinquished by: UPS

Sample Results

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine [†]	0.0315	%	0.0100	05/06/21	In house method by HPLC-DAD	
Mitragynine [†]	0.942	%	0.0500	05/06/21	In house method by HPLC-DAD	

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Report Number: 21-004769/D02.R00
Report Date: 05/07/2021
Purchase Order:
Received: 04/29/21 11:42 AM



Customer: Lamp Nutraceutical

Sample ID: LNK23 B15
Sample Matrix: Kratom powder
Laboratory ID: 21-004769-0015-00
Evidence of Cooling: No
Temp: 22 °C
Relinquished by: UPS

Sample Results

Microbiology

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		05/02/21	AOAC 2020.02 ₁	

E. coli/Coliform Count (EC) Plate

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	05/03/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	40,000	cfu/g	1,000	05/03/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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Report Number: 21-004769/D03.R00
Report Date: 05/07/2021
Purchase Order:
Received: 04/29/21 11:42 AM



Customer: Lamp Nutraceutical

Sample ID: LNK23 B16
Sample Matrix: Kratom powder
Laboratory ID: 21-004769-0016-01
Evidence of Cooling: No
Temp: 22 °C
Relinquished by: UPS

Sample Results

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine [†]	0.0315	%	0.0100	05/06/21	In house method by HPLC-DAD	
Mitragynine [†]	1.03	%	0.0500	05/06/21	In house method by HPLC-DAD	



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Report Number: 21-004769/D02.R00
Report Date: 05/07/2021
Purchase Order:
Received: 04/29/21 11:42 AM



Customer: Lamp Nutraceutical

Sample ID: LNK23 B16
Sample Matrix: Kratom powder
Laboratory ID: 21-004769-0016-00
Evidence of Cooling: No
Temp: 22 °C
Relinquished by: UPS

Sample Results

Microbiology

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		05/02/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	05/03/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	3,900	cfu/g	100	05/03/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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Report Number: 21-004769/D03.R00
Report Date: 05/07/2021
Purchase Order:
Received: 04/29/21 11:42 AM



Customer: Lamp Nutraceutical

Sample ID: LNK23 B17
Sample Matrix: Kratom powder
Laboratory ID: 21-004769-0017-01
Evidence of Cooling: No
Temp: 22 °C
Relinquished by: UPS

Sample Results

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine [†]	0.0239	%	0.0100	05/06/21	In house method by HPLC-DAD	
Mitragynine [†]	0.743	%	0.0500	05/06/21	In house method by HPLC-DAD	

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Report Number: 21-004769/D02.R00
Report Date: 05/07/2021
Purchase Order:
Received: 04/29/21 11:42 AM



Customer: Lamp Nutraceutical

Sample ID: LNK23 B17
Sample Matrix: Kratom powder
Laboratory ID: 21-004769-0017-00
Evidence of Cooling: No
Temp: 22 °C
Relinquished by: UPS

Sample Results

Microbiology

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		05/02/21	AOAC 2020.02 ₁	

E. coli/Coliform Count (EC) Plate

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	100	cfu/g	100	05/03/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	48,000	cfu/g	1,000	05/03/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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Report Number: 21-004769/D03.R00
Report Date: 05/07/2021
Purchase Order:
Received: 04/29/21 11:42 AM



Customer: Lamp Nutraceutical

Sample ID: LNK23 B18
Sample Matrix: Kratom powder
Laboratory ID: 21-004769-0018-01
Evidence of Cooling: No
Temp: 22 °C
Relinquished by: UPS

Sample Results

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine [†]	0.0314	%	0.0100	05/06/21	In house method by HPLC-DAD	
Mitragynine [†]	0.924	%	0.0500	05/06/21	In house method by HPLC-DAD	



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Report Number: 21-004769/D02.R00
Report Date: 05/07/2021
Purchase Order:
Received: 04/29/21 11:42 AM



Customer: Lamp Nutraceutical

Sample ID: LNK23 B18
Sample Matrix: Kratom powder
Laboratory ID: 21-004769-0018-00
Evidence of Cooling: No
Temp: 22 °C
Relinquished by: UPS

Sample Results

Microbiology

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		05/02/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	05/03/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	5,100	cfu/g	100	05/03/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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Report Number: 21-004769/D03.R00
Report Date: 05/07/2021
Purchase Order:
Received: 04/29/21 11:42 AM



Customer: Lamp Nutraceutical

Sample ID: LNK23 B19
Sample Matrix: Kratom powder
Laboratory ID: 21-004769-0019-01
Evidence of Cooling: No
Temp: 22 °C
Relinquished by: UPS

Sample Results

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine ¹	0.0284	%	0.0100	05/06/21	In house method by HPLC-DAD	
Mitragynine ¹	0.890	%	0.0500	05/06/21	In house method by HPLC-DAD	



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Customer: Lamp Nutraceutical

Sample ID: LNK23 B19
Sample Matrix: Kratom powder
Laboratory ID: 21-004769-0019-00
Evidence of Cooling: No
Temp: 22 °C
Relinquished by: UPS

Sample Results

Microbiology

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		05/02/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	05/03/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	4,900	cfu/g	100	05/03/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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Report Number: 21-004769/D03.R00
Report Date: 05/07/2021
Purchase Order:
Received: 04/29/21 11:42 AM



Customer: Lamp Nutraceutical

Sample ID: LNK23 B20
Sample Matrix: Kratom powder
Laboratory ID: 21-004769-0020-01
Evidence of Cooling: No
Temp: 22 °C
Relinquished by: UPS

Sample Results

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine [†]	0.0345	%	0.0100	05/06/21	In house method by HPLC-DAD	
Mitragynine [†]	0.877	%	0.0500	05/06/21	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



12423 NE Whitaker Way
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Report Number: 21-004769/D02.R00
Report Date: 05/07/2021
Purchase Order:
Received: 04/29/21 11:42 AM



Customer: Lamp Nutraceutical

Sample ID: LNK23 B20
Sample Matrix: Kratom powder
Laboratory ID: 21-004769-0020-00
Evidence of Cooling: No
Temp: 22 °C
Relinquished by: UPS

Sample Results

Microbiology						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		05/02/21	AOAC 2020.02 ₁	

E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	05/03/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	35,000	cfu/g	1,000	05/03/21	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.

Units of Measure

/25g = Per 25g
 cfu/g = Colony forming units per gram

Approved Signatory

Derrick Tanner
 General Manager

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