



Customer: Lamp Nutraceutical

Sample ID: LNK 21-B1
Sample Matrix: Kratom powder
Laboratory ID: 21-003159-0001-00
Evidence of Cooling: No
Temp: 16 °C
Relinquished by: UPS

Sample Results

Metals

Heavy Metals Profile K

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Arsenic	0.251	mg/kg	0.00633	03/31/21	AOAC 2013.06 (mod.) ₁	
Cadmium	0.0369	mg/kg	0.00633	03/31/21	AOAC 2013.06 (mod.) ₁	
Lead	0.398	mg/kg	0.00633	03/31/21	AOAC 2013.06 (mod.) ₁	
Mercury	0.0162	mg/kg	0.00316	03/31/21	AOAC 2013.06 (mod.) ₁	
Nickel	2.61	mg/kg	0.0127	03/31/21	AOAC 2013.06 (mod.) ₁	

1) trace metals in food by Inductively Coupled Mass Spectrometry

Microbiology

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		03/26/21	AOAC 2020.02 ₂	

Micro Profile D, (M1010)

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Aerobic Plate Count	1,130,000	cfu/g	10,000	03/27/21	AOAC 990.12 (Petrifilm)	
E.coli	< LOQ	cfu/g	100	03/27/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	86,000	cfu/g	1,000	03/27/21	AOAC 991.14 (Petrifilm)	
Mold (RAPID Petrifilm)	29,000	cfu/g	1,000	03/27/21	AOAC 2014.05 (RAPID)	
Yeast (RAPID Petrifilm)	140,000	cfu/g	10,000	03/27/21	AOAC 2014.05 (RAPID)	

2) GENE-UP® Assay

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine [†]	0.0354	%	0.0100	03/30/21	In house method by HPLC-DAD	
Mitragynine [†]	0.818	%	0.0500	03/30/21	In house method by HPLC-DAD	



Customer: Lamp Nutraceutical

Sample ID: LNK 21-B2
Sample Matrix: Kratom powder
Laboratory ID: 21-003159-0002-00
Evidence of Cooling: No
Temp: 16 °C
Relinquished by: UPS

Sample Results

Metals

Heavy Metals Profile K

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Arsenic	0.156	mg/kg	0.00897	03/31/21	AOAC 2013.06 (mod.) ₁	
Cadmium	0.0185	mg/kg	0.00897	03/31/21	AOAC 2013.06 (mod.) ₁	
Lead	1.30	mg/kg	0.00897	03/31/21	AOAC 2013.06 (mod.) ₁	
Mercury	0.0176	mg/kg	0.00448	03/31/21	AOAC 2013.06 (mod.) ₁	
Nickel	1.44	mg/kg	0.0179	03/31/21	AOAC 2013.06 (mod.) ₁	

1) trace metals in food by Inductively Coupled Mass Spectrometry

Microbiology

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Salmonella spp. by PCR	Negative	/25g		03/26/21	AOAC 2020.02 ₂	

Micro Profile D, (M1010)

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Aerobic Plate Count	150,000	cfu/g	10,000	03/27/21	AOAC 990.12 (Petrifilm)	
E.coli	< LOQ	cfu/g	100	03/27/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	7,300	cfu/g	100	03/27/21	AOAC 991.14 (Petrifilm)	
Mold (RAPID Petrifilm)	600	cfu/g	100	03/27/21	AOAC 2014.05 (RAPID)	
Yeast (RAPID Petrifilm)	170,000	cfu/g	10,000	03/27/21	AOAC 2014.05 (RAPID)	

2) GENE-UP® Assay

Mitragynine

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

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
7-Hydroxymitragynine [†]	0.0189	%	0.0100	03/30/21	In house method by HPLC-DAD	
Mitragynine [†]	0.411	%	0.0500	03/30/21	In house method by HPLC-DAD	



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

Report Number: 21-003159/D02.R00
 Report Date: 04/01/2021
 Purchase Order:
 Received: 03/24/21 10:45 AM



Customer: Lamp Nutraceutical

Sample ID: LNK 21-B3
 Sample Matrix: Kratom powder
 Laboratory ID: 21-003159-0003-00
 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		03/26/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	03/27/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	6,400	cfu/g	100	03/27/21	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.



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Report Number: 21-003159/D02.R00
 Report Date: 04/01/2021
 Purchase Order:
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Customer: Lamp Nutraceutical

Sample ID: LNK 21-B4
 Sample Matrix: Kratom powder
 Laboratory ID: 21-003159-0004-00
 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		03/26/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	03/27/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	4,600	cfu/g	100	03/27/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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 Purchase Order:
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Customer: Lamp Nutraceutical

Sample ID: LNK 21-B5
 Sample Matrix: Kratom powder
 Laboratory ID: 21-003159-0005-00
 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		03/26/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	03/27/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	200	cfu/g	100	03/27/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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Report Number: 21-003159/D02.R00
 Report Date: 04/01/2021
 Purchase Order:
 Received: 03/24/21 10:45 AM



Customer: Lamp Nutraceutical

Sample ID: LNK 21-B6
 Sample Matrix: Kratom powder
 Laboratory ID: 21-003159-0006-00
 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		03/26/21	AOAC 2020.02 ₁	

E. coli/Coliform Count (EC) Plate

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	03/27/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	< LOQ	cfu/g	100	03/27/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



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Report Number: 21-003159/D02.R00
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 Purchase Order:
 Received: 03/24/21 10:45 AM



Customer: Lamp Nutraceutical

Sample ID: LNK 21-B7
 Sample Matrix: Kratom powder
 Laboratory ID: 21-003159-0007-00
 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	/25g		03/26/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	03/27/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	300	cfu/g	100	03/27/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



Customer: Lamp Nutraceutical

Sample ID: LNK 21-B8
Sample Matrix: Kratom powder
Laboratory ID: 21-003159-0008-00
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	/25g		03/26/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	03/27/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	5,300	cfu/g	100	03/27/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



Customer: Lamp Nutraceutical

Sample ID: LNK 21-B9
Sample Matrix: Kratom powder
Laboratory ID: 21-003159-0009-00
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		03/26/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	03/27/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	7,000	cfu/g	100	03/27/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay



Customer: Lamp Nutraceutical

Sample ID: LNK 21-B10
Sample Matrix: Kratom powder
Laboratory ID: 21-003159-0010-00
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		03/26/21	AOAC 2020.02 ₁	
E. coli/Coliform Count (EC) Plate						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
E.coli	< LOQ	cfu/g	100	03/27/21	AOAC 991.14 (Petrifilm)	
Total Coliforms	3,800	cfu/g	100	03/27/21	AOAC 991.14 (Petrifilm)	

1) GENE-UP® Assay