Columbia LABORATORIES
A Tentamus Company

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

Report Number:	23-004740/D003.R001
Report Date:	06/01/2023
Purchase Order:	
Received:	04/19/23 10:10 AM

Cover Letter

Kats Botanicals

Dear Kats Botanicals,

Enclosed please find Columbia Laboratories analytical report for samples received as order number 23-004740 on 04/19/2023 at 10:10. Should you have any questions about this report or any other matter, please do not hesitate to contact us. We are here to help you.

Thank you for allowing Columbia Laboratories to be of service to you, we appreciate your business.

Sincerely,

Derrick Tanner
General Manager

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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This is an amended version of report# 23-004740/D003.R000.
Reason: second report, edited with different company name

Customer: Kats Botanicals

Sample ID: Lot 052225 - 45%
Sample Matrix: Kratom Gel Caps
Laboratory ID: 23-004740-0001
Evidence of Cooling: No
Temp: 18.3 °C
Relinquished by: USPS

Sample Results

Metals

Heavy Metals Profile K

Analyte	Result	Units	LOQ	Analyzed	Method	Threshold	Pass/Fail	Notes
Arsenic	< LOQ	mg/kg	0.0352	04/21/23	AOAC 2013.06 (mod.)þ[1]	2.08	pass	
Cadmium	< LOQ	mg/kg	0.0352	04/21/23	AOAC 2013.06 (mod.)þ[1]	0.850	pass	
Lead	< LOQ	mg/kg	0.0352	04/21/23	AOAC 2013.06 (mod.)þ[1]	1.25	pass	
Mercury	< LOQ	mg/kg	0.0176	04/21/23	AOAC 2013.06 (mod.)þ[1]	0.410	pass	
Nickel	0.0999	mg/kg	0.0352	04/21/23	AOAC 2013.06 (mod.)þ[1]	20.0	pass	

1) trace metals in food by Inductively Coupled Mass Spectrometry

Microbiology

Custom Microbiology Profile

Analyte	Result	Units	LOQ	Analyzed	Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	< LOQ	cfu/g	10	04/22/23	AOAC 990.12 (Petrifilm)þ	10,000	pass	I
E.coli	< LOQ	cfu/g	10	04/22/23	AOAC 991.14 (Petrifilm)þ	100	pass	I
Enterobacteriaceae	< LOQ	cfu/g	10	04/21/23	AOAC 2003.01þ	1,000	pass	I
Mold (RAPID Petrifilm)	< LOQ	cfu/g	10	04/23/23	AOAC 2014.05 (RAPID)þ	1,000	pass	I
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	10	04/23/23	AOAC 2014.05 (RAPID)þ	1000	pass	I
Salmonella spp. by PCR	Negative	/g	-	04/21/23	AOAC 2020.02þ[2]	Negative	pass	I

2) GENE-UP® Assay

Mitragynine

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Mitragynine

Mitragynine

Analyte	Result	Units	LOQ	Analyzed	Method	Threshold	Pass/Fail	Notes
Mitragynine	4.75	%	0.0500	04/25/23	In house method by HPLC-DADþ			

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.

Threshold Note: limits based on AHPA Recommended Limits for Powdered botanical extracts and products

Glossary of Qualifiers

I: Insufficient sample received to meet method requirements.

þ = ISO/IEC 17025:2017 accredited method.

Units of Measure

cfu/g = Colony forming units per gram
mg/kg = Milligram per kilogram = parts per million (ppm
/g = Per gram
% = Percentage of sample

Approved Signatory

Derrick Tanner
General Manager

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