Certificate of Analysis

Sample Information

ID: 427185

Date Received: 7/15/2021 Description: Kratom Lot#: W21GR/H

Analysis

Kratom 2A Profile

Complete Micro Profile

Total Plate Count (High Count)

Coliforms

E. coli

Staphylococcus aureus
Salmonella
Yeast (High Count)
Mold (High Count)
Heavy Metals
Arsenic (As)
Cadmium (Cd)
Mercury (Hg)
Lead (Pb)
Mitragynine Package
Mitragynine

7-Hydroxy-Mitragynine

Method	MDL/LOQ	Specification	Results	NOM
USP, AOAC				
USP <2021>	1,000	Record Only	None Detected	cfu's/g
AOAC 991.14	100	Record Only	None Detected	cfu's/g
USP <2022>	Absent	Record Only	Absent	cfu's/10g
USP <2022>	Absent	Record Only	Absent	cfu's/10g
USP <2022>	Absent	Record Only	Absent	cfu's/10g
USP <2021>	100	Record Only	None Detected	cfu's/g
USP <2021>	100	Record Only	None Detected	cfu's/g
ARL ICPMS 8.016				-
ARL ICPMS 8.016	0.001	Record Only	0.311	ppm
ARL ICPMS 8.016	0.001	Record Only	0.034	ppm
ARL ICPMS 8.016	0.001	Record Only	0.025	ppm
ARLICPMS 8.016	0.001	Record Only	0.614	ppm
HPLC 2.046				1
HPLC 2.046	0.1	Record Only	1.2	%
HPLC 2.046	0.04	Record Only	<0.04	%

Form# arlcoa031201a

Printed on: Aug 3, 2021

5:17 PM

experience * professionalism * value

Released by: Kara

Aug 3, 20 Page 1

Certificate of Analysis

Sample Information

ID: 422115

Date Received: 6/17/2021 Description: Kratom

Lot#: W20-4

Analysis

Kratom 2A Profile

Complete Micro Profile

Total Plate Count (High Count)

Coliforms

E. coli

Staphylococcus aureus

Salmonella Yeast (High Count) Mold (High Count)

Heavy Metals Arsenic (As)

Cadmium (Cd) Mercury (Hg)

Lead (Pb)

Mitragynine Package

Mitragynine

7-Hydroxy-Mitragynine

Method	TMDL/LOQ	Specification	Results	MON	Lab ID
2404 9211					
USP, AOAC	100	Record Only	None Detected	cfu's/g	
AOAC 991.14	100	Record Only	None Detected	cfu's/g	
USP <2022>	Absent	Record Only	Absent	cfu's/10g	
USP <2022>	Absent	Record Only	Absent	cfu's/10g	
USP <2022>	Absent	Record Only	Absent	cfu's/10g	
USP <2021>	100	Record Only	None detected	cfu's/g	
USP <2021>	100	Record Only	None detected	cfu's/g	
ARL ICPMS 8.016					
ARLICPMS 8.016	0.001	Record Only	0.455	ppm	
ARL ICPMS 8.016	0.001	Record Only	0.015	ppm	
ARL ICPMS 8.016	0.001	Record Only	0.024	ppm	
ARLICPMS 8.016	0.001	Record Only	0.573	ppm	
HPLC 2.046					
HPLC 2.046	0.1	Record Only	1.1	%	
HPLC 2.046	0.04	Record Only	<0.04	%	

Form# arlcoa031201a

Printed on: Jul 1, 2021

2:17 PM

experience · professionalism · value

Released by:

Jacob Teller Jul 1, 2021

Page 1

^{*}Method Detection Limit (MDL): In microbiological testing, this is the minimum level of growth that can be detected with confidence. If a result is reported as "None detected", it means any visible growth was below this limit. Limit of Quantitation (LOQ): In analytical chemistry testing, this is the minimum level of the desired analyte that can be quantified with confidence. If a result is reported as less than LOQ, it means any detected amount was too small to report an exact number.

Certificate of Analysis

Sample Information

ID: 393513

Date Received: 1/22/2021 Description: White Hulu

Lo#: A0292

Analysis

	Method	MDL	Specification	Results	UOM	Lab ID
Kratom 2A Profile (Rapid)						
Complete Micro Profile (Rapid)	USP, AOAC				400.00	
Total Plate Count (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	
Coliforms	AOAC 991.14	100	Record Only	None Detected	cfu's/g	
E. coli	USP <2022>	Absent	Record Only	Absent	cfu's/10g	*
Staphylococcus aureus	USP <2022>	Absent	Record Only	Absent	cfu's/10g	
Salmonella	USP <2022>	Absent	Record Only	Absent	cfu's/10g	
Yeast and Mold (High Count, Rapid)	AOAC RI	100	Record Only	None Detected	cfu's/g	
Heavy Metals	ARL ICPMS					
Arsenic (As)	ARL ICPMS	0.001	Record Only	0.747	ppm	
Cadmium (Cd)	ARL ICPMS	0.001	Record Only	0.030	ppm	
Mercury (Hg)	ARL ICPMS	0.001	Record Only	0.043	ppm	
Lead (Pb)	ARL ICPMS	0.001	Record Only	0.805	ppm	
Mitragynine Package	HPLC 2.046					
Mitragynine	HPLC 2.046	0.1	Record Only	1.3	%	
7-Hydroxy-Mitragynine	HPLC 2.046	0.04	Record Only	<0.04	%	1

Form# arlcoa031201a

Printed on: Jan 27, 2021 1:08 PM

experience · professionalism · value

Released by:

Jan 27, 2021 Page 1

* ARL is an ISO/IEC 17025:2017 Accredited Laboratory. Uncertainty data for ISO-scoped methods is available upon request. Certificate and Supplement also available upon request.

This Certificate of Analysis represents date only for the sample provided and does not constitute a guarantee of quality for the entire production lot.