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Certificate of Analysis

Client Information

NCAT LLC 4 Long Shoals Rd Arden, NC 28704 USA 702-886-2056 Sample Information

ARL ID: 697024 Date Received: 9/5/2023 Date Tested: 9/12/2023

Description: GREEN MAENG DA POWDER

Results

Analysis	Method	†MDL / LOQ	10 to - a 111 to - 41	Pr 14		
•	Metriod	MDL / LOQ	Specification	Results	UOM	Lab iD
K2A Profile						1
Complete Micro Profile	USP <2021>, USP <2022>, AOAC 991.14					3
Total Plate Count (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Coliforms	AOAC 991.14	100	Record Only	None Detected	cfu's/g	1
E. coli	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Staphylococcus aureus	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Salmonella	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Yeast (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Mold (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Heavy Metals	ARL ICPMS 8,016					\widehat{T}
Arsenic (As)	ARL ICPMS 8.016	0.001	Record Only	0.706	ppm	1
Cadmium (Cd)	ARL ICPMS 8.016	0.001	Record Only	0.018	ppm	1
Mercury (Hg)	ARL ICPMS 8.016	0.001	Record Only	0.020	ppm	1
Lead (Pb)	ARL ICPMS 8.016	0.001	Record Only	0.528	ppm	1
Mitragynine Package	ARL 2.046					1
Mitragynine	ARL 2.046	0.03	Record Only	1.45	%	1
7-Hydroxy-Mitragynine	ARL 2.046	0.04	Record Only	<0.04	%	1

Form: arlcoa031201a Report: 697024 Printed on: 9/12/2023 4:42:12 PM



Description: GREEN MAENG DA POWDER



Results

Analysis	Method	MDL / LOQ	Specification	Results	UOM	Lab ID
FTIR Package	ARL 8.012					1
Appearance	ARL 2.003		Record Only	Powder		15
Color	ARL 2.003		Record Only	Light Olive		1
Odor	ARL 2.003		Record Only	Characteristic		1
FT-IR Analysis	ARL 8.012	0.1	> 95	99.5	%	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 chamistry 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.

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Certificate of Analysis

Sample information

ARL ID: 697024 Date Received: 9/5/2023 Date Tested: 9/12/2023

Description: GREEN BALI KRATOM POWDER

		Results				
Analysis	Method	†MDL/LOQ	Specification	Results	UOM	Lab ID
K2A Profile						1
Complete Micro Profile	USP <2021>, USP <2022>, AOAC 991.14					1
Total Plate Count (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Coliforms	AOAC 991.14	100	Record Only	None Detected	cfu's/g	1
E. coli	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Staphylococcus aureus	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Salmonella	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Yeast (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Mald (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Heavy Metals	ARL ICPMS 8.016					1
Arsenic (As)	ARL ICPMS 8.016	0.001	Record Only	0.706	ppm	1
Cadmium (Cd)	ARL ICPMS 8.016	0.001	Record Only	0.018	ppm	1
Mercury (Hg)	ARL ICPMS 8.016	0.001	Record Only	0.020	ppm	1
Lead (Pb)	ARL ICPMS 8.016	0.001	Record Only	0.528	ppm	1
Mitragynine Package	ARL 2.046					1
Mitragynine	ARL 2.046	0.03	Record Only	1.45	%	1
7-Hydroxy-Mitragynine	ARL 2.046	0.04	Record Only	<0.04	%	1

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Description: GREEN BALI KRATOM POWDER



Results

Analysis	Method	†MDL/LOQ	Specification	Results	UOM	Lab (D
FTIR Package	ARL 8.012					1
Appearance	ARL 2.003		Record Only	Powder		1
Color	ARL 2.003		Record Only	Light Olive		1
Odor	ARL 2.003		Record Only	Characteristic		1
FT-IR Analysis	ARL 8.012	0.1	> 95	99.5	%	1

†Method Detection Limit (MDL):

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[†]Limit of Quantitation (LOQ):

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Certificate of Analysis

Sample Information

ARL ID: 697024 Date Received: 9/5/2023

Date Received: 9/5/2023 Date Tested: 9/12/2023

Description: GREEN VIETNAM KRATOM POWDER



Client Information NCAT LLC

Arden, NC 28704 USA 702-886-2056

Results

Analysis	Method	†MDL / LOQ	Specification	Results	UOM	Lab ID
K2A Profile						-16
Complete Micro Profile	USP <2021>, USP <2022>, AOAC 991.14					1
Total Plate Count (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Coliforms	AOAC 991.14	100	Record Only	None Detected	cfu's/g	1
E. coli	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Staphylococcus aureus	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Salmonella	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Yeast (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Mold (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Heavy Metals	ARL ICPMS 8.016					1
Arsenic (As)	ARL ICPMS 8.016	0.001	Record Only	0.706	ppm	1
Cadmium (Cd)	ARL ICPMS 8.016	0.001	Record Only	0.018	ppm	1
Mercury (Hg)	ARL ICPMS 8.016	0.001	Record Only	0.020	ppm	1
Lead (Pb)	ARL ICPMS 8.016	0.001	Record Only	0.528	ppm	1
Mitragynine Package	ARL 2.046					1
Mitragynine	ARL 2.046	0.03	Record Only	1.45	%	1
7-Hydroxy-Mitragynine	ARL 2.046	0.04	Record Only	<0.04	%	1

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Description: GREEN VIETNAM KRATOM POWDER



Results

Analysis	Method	†MDL/LOQ	Specification	Results	UOM	Lab ID
FTIR Package	ARL 8.012					ŧ
Appearance	ARL 2.003		Record Only	Powder		1
Color	ARL 2.003		Record Only	Light Olive		1
Odor	ARL 2.003		Record Only	Characteristic		1
FT-IR Analysis	ARL 8.012	0.1	> 95	99.5	%	1

†Method Detection Limit (MDL):

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ARL ID: 697024 Date Received: 9/5/2023 Date Tested: 9/12/2023

Description: GREEN MALAY KRATOM POWDER



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Results

Analysis	Method	†MDL/LOQ	Specification	Results	UOM	Lab ID
K2A Profile						1
Complete Micro Profile	USP <2021>, USP <2022>, AOAC 991.14					
Total Plate Count (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Coliforms	AOAC 991.14	100	Record Only	None Detected	cfu's/g	1
E, coli	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Staphylococcus aureus	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Salmonella	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Yeast (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Mold (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Heavy Metals	ARL ICPMS 8.016					1
Arsenic (As)	ARLICPMS 8.016	0.001	Record Only	0.706	ppm	1
Cadmium (Cd)	ARL ICPMS 8.016	0.001	Record Only	0.018	ppm	1
Mercury (Hg)	ARL ICPMS 8.016	0.001	Record Only	0.020	ppm	1
Lead (Pb)	ARL ICPMS 8.016	0.001	Record Only	0.528	ppm	1
Mitragynine Package	ARL 2.046					1
Mitragynine	ARL 2.046	0.03	Record Only	1.45	%	1
7-Hydroxy-Mitragynine	ARL 2.046	0.04	Record Only	<0.04	%	1

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Description: GREEN MALAY KRATOM POWDER



Results

Analysis	Method	†MDL/LOQ	Specification	Results	MOU	Lab ID
FTIR Package	ARL 8.012					1
Appearance	ARL 2.003		Record Only	Powder		363
Color	ARL 2.003		Record Only	Light Olive		1
Odor	ARL 2.003		Record Only	Characteristic		1
FT-IR Analysis	ARL 8.012	0.1	> 95	99.5	%	1

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†Limit of Quantitation (LOQ):

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ARL ID: 697024 Date Received: 9/5/2023 Date Tested: 9/12/2023

Description: GREEN INDO POWDER



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NCAT LLC 4 Long Shoals Rd Arden, NC 28704 USA 702-886-2056

Results

Analysis	Method	†MDL / LOQ	Specification	Results	UOM	Lab ID
K2A Profile						1
Complete Micro Profile	USP <2021>, USP <2022>, AOAC 991.14					1
Total Plate Count (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Coliforms	AOAC 991.14	100	Record Only	None Detected	cfu's/g	1
E. coli	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Staphylococcus aureus	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Salmonella	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Yeast (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Mold (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Heavy Metals	ARL ICPMS 8.016					1
Arsenic (As)	ARL ICPMS 8.016	0.001	Record Only	0.706	ppm	1
Cadmium (Cd)	ARL ICPMS 8.016	0.001	Record Only	0.018	ppm	1
Mercury (Hg)	ARL ICPMS 8.016	0.001	Record Only	0.020	ppm	1
Lead (Pb)	ARL ICPMS 8.016	0.001	Record Only	0.528	ppm	1
Mitragynine Package	ARL 2.046					1
Mitragynine	ARL 2.046	0.03	Record Only	1.45	%	1
7-Hydroxy-Mitragynine	ARL 2.046	0.04	Record Only	<0.04	%	1

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Released by: Jacob Teller

Date Released: 9/12/2023



Description: GREEN INDO POWDER



Results

Analysis	Method	MDL / LOQ	Specification	Results	UOM	Lab ID
FTIR Package	ARL 8.012					1
Appearance	ARL 2.003		Record Only	Powder		1
Color	ARL 2.003		Record Only	Light Olive		1
Odor	ARL 2.003		Record Only	Characteristic		1
FT-tR Analysis	ARL 8.012	0.1	> 95	99.5	%	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):

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Certificate of Analysis

Sample Information

ARL ID: 697024 Date Received: 9/5/2023 Date Tested: 9/12/2023

Description: GREEN BORNEO POWDER

		Results				
Analysis	Method	†MDL / LOQ	Specification	Results	UOM	Lab ID
K2A Profile						1
Complete Micro Profile	USP <2021>, USP <2022>, AOAC 991.14					1
Total Plate Count (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Coliforms	AOAC 991.14	100	Record Only	None Detected	cfu's/g	1
E. coli	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Staphylococcus aureus	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Salmonella	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Yeast (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Mold (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Heavy Metals	ARL ICPMS 8,016					1
Arsenic (As)	ARL ICPMS 8.016	0.001	Record Only	0.706	ppm	1
Cadmium (Cd)	ARL ICPMS 8.016	0.001	Record Only	0.018	ppm	1
Mercury (Hg)	ARL ICPMS 8.016	0.001	Record Only	0.020	ppm	1
Lead (Pb)	ARL ICPMS 8.016	0.001	Record Only	0.528	ppm	1
Mitragynine Package	ARL 2.046					1
Mitragynine	ARL 2.046	0.03	Record Only	1.45	%	1
7-Hydroxy-Mitragynine	ARL 2.046	0.04	Record Only	<0.04	%	1

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Description: GREEN BORNEO POWDER



Results

Analysis	Method	TMDL/LOQ	Specification	Results	UOM	Lab ID
FTIR Package	ARL 8.012					1
Appearance	ARL 2.003		Record Only	Powder		1
Color	ARL 2.003		Record Only	Light Olive		1
Odor	ARL 2.003		Record Only	Characteristic		16
FT-IR Analysis	ARL 8.012	0.1	> 95	99.5	%	1

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[†]Limit of Quantitation (LOQ):

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ARL ID: 697024 Date Received: 9/5/2023 Date Tested: 9/12/2023

Description: GREEN THAI KRATOM POWDER

		Results				
Analysis	Method	†MDL/LOQ	Specification	Results	UOM	Lab ID
K2A Profile			16			7
Complete Micro Profile	USP <2021>, USP <2022>, AOAC 991.14					1
Total Plate Count (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Coliforms	AOAC 991.14	100	Record Only	None Detected	cfu's/g	1
E. coli	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Staphylococcus aureus	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Salmonella	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Yeast (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Mold (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Heavy Metals	ARL ICPMS 8.016					1
Arsenic (As)	ARL ICPMS 8.016	0.001	Record Only	0.706	ppm	1
Cadmium (Cd)	ARL ICPMS 8.016	0.001	Record Only	0.018	ppm	1
Mercury (Hg)	ARL ICPMS 8.016	0.001	Record Only	0.020	ppm	1
Lead (Pb)	ARL ICPMS 8.016	0.001	Record Only	0.528	ppm	1
Mitragynine Package	ARL 2.046					1
Mitragynine	ARL 2.046	0.03	Record Only	1.45	%	1
7-Hydroxy-Mitragynine	ARL 2.046	0.04	Record Only	<0.04	%	1

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Description: GREEN THAI KRATOM POWDER



Results

Analysis	Method	†MDL / LOQ	Specification	Results	UOM	Lab ID
FTIR Package	ARL 8.012					1
Appearance	ARL 2.003		Record Only	Powder		1
Color	ARL 2.003		Record Only	Light Olive		1
Odor	ARL 2.003		Record Only	Characteristic		1
FT-IR Analysis	ARL 8.012	0.1	> 95	99.5	%	1

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ARL ID: 697024

Date Received: 9/5/2023 Date Tested: 9/12/2023

Description: RED BALI KRATOM POWDER

Resi	ults

Analysis	Method	†MDL / LOQ	Specification	Results	UOM	Lab ID
K2A Profile						1
Complete Micro Profile	USP <2021>, USP <2022>, AOAC 991.14					1
Total Plate Count (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Coliforms	AOAC 991.14	100	Record Only	None Detected	cfu's/g	1
E. coli	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Staphylococcus aureus	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Salmoneila	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Yeast (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Mold (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Heavy Metals	ARL ICPMS 8.016					8
Arsenic (As)	ARL ICPMS 8.016	0.001	Record Only	0.706	ppm	1
Cadmium (Cd)	ARL ICPMS 8.016	0.001	Record Only	0.018	ppm	1
Mercury (Hg)	ARL ICPMS 8.016	0.001	Record Only	0.020	ppm	1
Lead (Pb)	ARL ICPMS 8.016	0.001	Record Only	0.528	ppm	1
Mitragynine Package	ARL 2.046					1
Mitragynine	ARL 2.046	0.03	Record Only	1.45	%	1
7-Hydroxy-Mitragynine	ARL 2.046	0.04	Record Only	<0.04	%	1

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Description: RED BALI KRATOM POWDER



Results

Analysis	Method	†MDL / LOQ	Specification	Results	UOM	Lab ID
FTIR Package	ARL 8.012					1
Appearance	ARL 2.003		Record Only	Powder		1
Color	ARL 2.003		Record Only	Light Olive		1
Odor	ARL 2.003		Record Only	Characteristic		1
FT-IR Analysis	ARL 8.012	0.1	> 95	99.5	%	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.

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Description: RED BORNEO KRATOM POWDER

Results

Analysis	Method	†MDL / LOQ	Specification	Results	UOM	Lab ID
K2A Profile						1
Complete Micro Profile	USP <2021>, USP <2022>, AOAC 991.14					1
Total Plate Count (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Coliforms	AOAC 991.14	100	Record Only	None Detected	cfu's/g	1
E. coli	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Staphylococcus aureus	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Salmonella	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Yeast (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Mold (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Heavy Metals	ARL ICPMS 8.016					1
Arsenic (As)	ARL ICPMS 8.016	0.001	Record Only	0.706	ppm	1
Cadmium (Cd)	ARL ICPMS 8.016	0.001	Record Only	0.018	ppm	1
Mercury (Hg)	ARL ICPMS 8.016	0.001	Record Only	0.020	ppm	1
Lead (Pb)	ARL ICPMS 8.016	0.001	Record Only	0.528	ppm	1
Mitragynine Package	ARL 2.046					1
Mitragynine	ARL 2.046	0.03	Record Only	1.45	%	1
7-Hydroxy-Mitragynine	ARL 2.046	0.04	Record Only	<0.04	%	1

Form: arlcoa031201a Report: 697024 Printed on: 9/12/2023 4:42:12 PM



Description: RED BORNEO KRATOM POWDER



Results

Analysis	Method	†MDL / LOQ	Specification	Results	UOM	Lab ID
FTIR Package	ARL 8.012					11
Appearance	ARL 2.003		Record Only	Powder		1
Color	ARL 2.003		Record Only	Light Olive		1
Odor	ARL 2.003		Record Only	Characteristic		1
FT-IR Analysis	ARL 8.012	0.1	> 95	99.5	%	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 LOO it means any detected amount was too small to report an exact number.

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Certificate of Analysis

Sample Information

ARL ID: 697024 Date Received: 9/5/2023 Date Tested: 9/12/2023

Description: RED MAENG DA KRATOM POWDER



Client Information

NCAT LLC 4 Long Shoals Rd Arden, NC 28704 USA 702-886-2056

Results

Analysis	Method	TMDL/LOQ	Specification	Results	UOM	Lab ID
K2A Profile						1
Complete Micro Profile	USP <2021>, USP <2022>, AOAC 991.14					1
Total Plate Count (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Coliforms	AOAC 991.14	100	Record Only	None Detected	cfu's/g	1
E, coli	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Staphylococcus aureus	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Salmonella	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Yeast (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Mold (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Heavy Metals	ARL ICPMS 8.016					1
Arsenic (As)	ARL ICPMS 8.016	0.001	Record Only	0.706	ppm	1
Cadmium (Cd)	ARL ICPMS 8.016	0.001	Record Only	0.018	ppm	1
Mercury (Hg)	ARL ICPMS 8.016	0.001	Record Only	0.020	ppm	1
Lead (Pb)	ARL ICPMS 8.016	0.001	Record Only	0.528	ppm	1
Mitragynine Package	ARL 2.046					1
Mitragynine	ARL 2.046	0.03	Record Only	1.45	%	1
7-Hydroxy-Mitragynine	ARL 2.046	0.04	Record Only	<0.04	%	11

Form: arlcoa031201a Report: 697024 Printed on: 9/12/2023 4:42:12 PM



Description: RED MAENG DA KRATOM POWDER



Results

Analysis	Method	MDL / LOQ	Specification	Results	UOM	Lab ID
FTIR Package	ARL 8.012					1
Appearance	ARL 2.003		Record Only	Powder		1
Color	ARL 2.003		Record Only	Light Olive		1
Odor	ARL 2.003		Record Only	Characteristic		1
FT-IR Analysis	ARL 8.012	0.1	> 95	99.5	%	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

[†]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.

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Client Information

NCAT LLC 4 Long Shoals Rd Arden, NC 28704 USA 702-886-2056 Sample Information

ARL ID: 697024

Date Received: 9/5/2023 Date Tested: 9/12/2023

Description: WHITE ELEPHANT KRATOM POWDER

Results

Analysis	Method	†MDL/LOQ	Specification	Results	UOM	Lab ID
K2A Profile						1
Complete Micro Profile	USP <2021>, USP <2022>, AOAC 991.14					1
Total Plate Count (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Coliforms	AOAC 991.14	100	Record Only	None Detected	cfu's/g	1
E. coli	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Staphylococcus aureus	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Salmonella	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Yeast (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Mold (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Heavy Metals	ARL ICPMS 8.016					1
Arsenic (As)	ARL ICPMS 8.016	0.001	Record Only	0.706	ppm	1
Cadmium (Cd)	ARL ICPMS 8.016	0.001	Record Only	0.018	ppm	1
Mercury (Hg)	ARL ICPMS 8.016	0.001	Record Only	0.020	ppm	1
Lead (Pb)	ARL ICPMS 8.016	0.001	Record Only	0.528	ppm	1
Mitragynine Package	ARL 2.046					1
Mitragynine	ARL 2.046	0.03	Record Only	1.45	%	1
7-Hydroxy-Mitragynine	ARL 2.046	0.04	Record Only	<0.04	%	1

Form: arlcoa031201a Report: 697024 Printed on: 9/12/2023 4:42:12 PM



Description: WHITE ELEPHANT KRATOM POWDER



		Results				
Analysis	Method	TMDL/LOQ	Specification	Results	NOM	Lab ID
FTIR Package	ARL 8.012					1
Appearance	ARL 2.003		Record Only	Powder		1
Color	ARL 2.003		Record Only	Light Olive		1
Odor	ARL 2.003		Record Only	Characteristic		1
FT-IR Analysis	ARL 8.012	0.1	> 95	99.5	%	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.

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Certificate of Analysis

Sample Information

ARL ID: 697024 Date Received: 9/5/2023 Date Tested: 9/12/2023

Description: WHITE MAENG DA POWDER



Client Information

NCAT LLC 4 Long Shoais Rd Arden, NC 28704 USA 702-886-2056

Results

Analysis	Method	TMDL/LOQ	Specification	Results	UOM	Lab ID
K2A Profile						1
Complete Micro Profile	USP <2021>, USP <2022>, AOAC 991.14					1
Total Plate Count (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Coliforms	AOAC 991.14	100	Record Only	None Detected	cfu's/g	1
E. coli	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Staphylococcus aureus	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Salmonella	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Yeast (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Mold (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Heavy Metals	ARL ICPMS 8.016					1
Arsenic (As)	ARL ICPMS 8.016	0.001	Record Only	0.706	ppm	1
Cadmium (Cd)	ARL ICPMS 8.016	0.001	Record Only	0.018	ppm	1
Mercury (Hg)	ARL ICPMS 8.016	0.001	Record Only	0.020	ppm	1
Lead (Pb)	ARL ICPMS 8.016	0.001	Record Only	0.528	ppm	1
Mitragynine Package	ARL 2.046					1
Mitragynine	ARL 2.046	0.03	Record Only	1.45	%	1
7-Hydroxy-Mitragynine	ARL 2.046	0.04	Record Only	<0.04	%	1

Form: arlcoa031201a Report: 697024 Printed on: 9/12/2023 4:42:12 PM



Description: WHITE MAENG DA POWDER



		Results				
Analysis	Method	†MDL / LOQ	Specification	Results	UOM	Lab ID
FTIR Package	ARL 8.012					1
Appearance	ARL 2.003		Record Only	Powder		1
Color	ARL 2.003		Record Only	Light Olive		98
Odor	ARL 2.003		Record Only	Characteristic		1
FT-IR Analysis	ARL 8.012	0.1	> 95	99.5	%	1

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.

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[†]Method Detection Limit (MDL):



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Sample Information

Date Received: 9/5/2023 Date Tested: 9/12/2023

Description: GOLD MAENG DA KRATOM POWDER

Client Information

NCAT LLC 4 Long Shoals Rd Arden, NC 28704 USA 702-886-2056

Results										
Analysis	Method	†MDL / LOQ	Specification	Results	UOM	Lab ID				
K2A Profile						3				
Complete Micro Profile	USP <2021>, USP <2022>, AOAC 991.14					1				
Total Plate Count (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1				
Coliforms	AOAC 991.14	100	Record Only	None Detected	cfu's/g	i i				
E. coli	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1				
Staphylococcus aureus	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1				
Salmonella	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1				
Yeast (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1				
Mold (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1				
Heavy Metals	ARL ICPMS 8.016					1				
Arsenic (As)	ARL ICPMS 8.016	0.001	Record Only	0.309	ppm	1				
Cadmium (Cd)	ARL ICPMS 8.016	0.001	Record Only	0.020	ppm	1				
Mercury (Hg)	ARL ICPMS 8.016	0.001	Record Only	0.020	ppm	1				
Lead (Pb)	ARL ICPMS 8.016	0.001	Record Only	0.716	ppm	1				
Mitragynine Package	ARL 2.046					.1				
Mitragynine	ARL 2.046	0.03	Record Only	1.27	%	1				
7-Hydroxy-Mitragynine	ARL 2.046	0.04	Record Only	<0.04	%	1				



Description: GOLD MAENG DA KRATOM POWDER



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Analysis	Method	MDL/LOQ	Specification	Results	UOM	Lab ID
FTIR Package	ARL 8.012					1
Appearance	ARL 2.003		Record Only	Powder		1
Color	ARL 2.003		Record Only	Light Olive		14
Odor	ARL 2.003		Record Only	Characteristic		1
FT-IR Analysis	ARL 8.012	0.1	> 95	99.7	%	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.

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Certificate of Analysis

Client Information

NCAT LLC 4 Long Shoals Rd Arden, NC 28704 USA 702-886-2056 Sample Information

Date Received: 9/5/2023 Date Tested: 9/12/2023

Description: GOLD BALI KRATOM POWDER

		Results				
Analysis	Method	†MDL / LOQ	Specification	Results	UOM	Lab ID
K2A Profile						1
Complete Micro Profile	USP <2021>, USP <2022>, AOAC 991.14					1
Total Plate Count (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Coliforms	AOAC 991.14	100	Record Only	None Detected	cfu's/g	1
E. coli	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Staphylococcus aureus	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Salmonelia	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Yeast (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Mold (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Heavy Metals	ARL ICPMS 8.016					1
Arsenic (As)	ARL ICPMS 8.016	0.001	Record Only	0.309	ppm	1
Cadmium (Cd)	ARL ICPMS 8.016	0.001	Record Only	0.020	ppm	1
Mercury (Hg)	ARL ICPMS 8.016	0.001	Record Only	0.020	ppm	1
Lead (Pb)	ARL ICPMS 8.016	0.001	Record Only	0.716	ppm	1
Mitragynine Package	ARL 2.046					1
Mitragynine	ARL 2.046	0.03	Record Only	1.27	%	1
7-Hydroxy-Mitragynine	ARL 2.046	0.04	Record Only	<0.04	%	1



Description: GOLD BALI KRATOM POWDER



Results

Analysis	Method	MDL / LOQ	Specification	Results	UOM	Lab ID
FTIR Package	ARL 8.012					1
Appearance	ARL 2.003		Record Only	Powder		\times
Color	ARL 2.003		Record Only	Light Olive		1
Odor	ARL 2.003		Record Only	Characteristic		1
FT-IR Analysis	ARL 8.012	0.1	> 95	99.7	%	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.

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Released by: Jacob Teller Date Released: 9/12/2023

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Certificate of Analysis

Sample Information

Date Received: 9/5/2023 Date Tested: 9/12/2023

Description: CHOCOLATE KRATOM POWDER

Client Information

NCAT LLC 4 Long Shoals Rd Arden, NC 28704 USA 702-886-2056

Results

Analysis	Method	†MDL / LOQ	Specification	Results	UOM	Lab ID
K2A Profile						3
Complete Micro Profile	USP <2021>, USP <2022>, AOAC 991.14					1
Total Plate Count (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Coliforms	AOAC 991.14	100	Record Only	None Detected	cfu's/g	1
E. coli	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Staphylococcus aureus	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Salmonella	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Yeast (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Mold (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Heavy Metals	ARL ICPMS 8.016					9
Arsenic (As)	ARL ICPMS 8.016	0.001	Record Only	0.309	ppm	1
Cadmium (Cd)	ARL ICPMS 8.016	0.001	Record Only	0.020	ppm	1
Mercury (Hg)	ARL ICPMS 8.016	0.001	Record Only	0.020	ppm	1
Lead (Pb)	ARL ICPMS 8.016	0.001	Record Only	0.716	ppm	1
Mitragynine Package	ARL 2.046					1
Mitragynine	ARL 2.046	0.03	Record Only	1.27	%	1
7-Hydroxy-Mitragynine	ARL 2.046	0.04	Record Only	<0.04	%	1



Description: CHOCOLATE KRATOM POWDER



Results

Analysis	Method	MDL/LOQ	Specification	Results	UOM	Lab ID
FTIR Package	ARL 8.012					1
Appearance	ARL 2.003		Record Only	Powder		Ŧ
Color	ARL 2.003		Record Only	Light Olive		1
Odor	ARL 2.003		Record Only	Characteristic		1
FT-IR Analysis	ARL 8.012	0.1	> 95	99.7	%	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.

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Released by: Jacob Teller Date Released: 9/12/2023

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Client Information

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Certificate of Analysis

Sample Information

ARL ID: 697024

Date Received: 9/5/2023 Date Tested: 9/12/2023

Description: GREEN MAENG DA KRATOM CAPSULES

Results

Analysis	Method	†MDL/LOQ	Specification	Results	UOM	Lab ID
K2A Profile						1
Complete Micro Profile	USP <2021>, USP <2022>, AOAC 991.14					1
Total Plate Count (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Coliforms	AOAC 991.14	100	Record Only	None Detected	cfu's/g	1
E. coli	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Staphylococcus aureus	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Salmonella	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Yeast (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Mold (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Heavy Metals	ARL ICPMS 8.016					1
Arsenic (As)	ARL ICPMS 8.016	0.001	Record Only	0.706	ppm	1
Cadmium (Cd)	ARL ICPMS 8.016	0.001	Record Only	0.018	ppm	1
Mercury (Hg)	ARL ICPMS 8.016	0.001	Record Only	0.020	ppm	1
Lead (Pb)	ARL ICPMS 8.016	0.001	Record Only	0.528	ppm	1
Mitragynine Package	ARL 2.046					1
Mitragynine	ARL 2.046	0.03	Record Only	1.45	%	1
7-Hydroxy-Mitragynine	ARL 2.046	0.04	Record Only	<0.04	%	1

Form: arlcoa031201a Report: 697024 Printed on: 9/12/2023 4:42:12 PM



Date Received: 9/5/2023

Date Tested: 9/12/2023
Description: GREEN MAENG DA KRATOM CAPSULES



Results

Analysis	Method	[†] MDL / LOQ	Specification	Results	UOM	Lab ID
FTIR Package	ARL 8.012					1
Appearance	ARL 2.003		Record Only	Powder		1
Color	ARL 2.003		Record Only	Light Olive		1
Odor	ARL 2.003		Record Only	Characteristic		4
FT-IR Analysis	ARL 8.012	0.1	> 95	99.5	%	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.

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Sample Information

ARL ID: 697024 Date Received: 9/5/2023 Date Tested: 9/12/2023

Description: RED MAENG DA CAPSULES



Client Information

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Results

Analysis	Method	†MDL / LOQ	Specification	Results	UOM	Lab ID
K2A Profile						
Complete Micro Profile	USP <2021>, USP <2022>, AOAC 991.14					1
Total Plate Count (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Coliforms	AOAC 991.14	100	Record Only	None Detected	cfu's/g	1
E. coli	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Staphylococcus aureus	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Salmonella	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Yeast (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Mold (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Heavy Metals	ARL ICPMS 8.016					1
Arsenic (As)	ARL ICPMS 8.016	0.001	Record Only	0.706	ppm	1
Cadmium (Cd)	ARL ICPMS 8.016	0.001	Record Only	0.018	ppm	1
Mercury (Hg)	ARL ICPMS 8.016	0.001	Record Only	0.020	ppm	1
Lead (Pb)	ARL ICPMS 8.016	0.001	Record Only	0.528	ppm	1
Mitragynine Package	ARL 2.046					1
Mitragynine	ARL 2.046	0.03	Record Only	1.45	%	1
7-Hydroxy-Mitragynine	ARL 2.046	0.04	Record Only	<0.04	%	1

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Description: RED MAENG DA CAPSULES



Results

Analysis	Method	†MDL / LOQ	Specification	Results	UOM	Lab ID
FTIR Package	ARL 8.012					1
Appearance	ARL 2.003		Record Only	Powder		di
Color	ARL 2.003		Record Only	Light Olive		1
Odor	ARL 2.003		Record Only	Characteristic		1
FT-IR Analysis	ARL 8.012	0.1	> 95	99.5	%	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.

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

Page 2 of 2



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Certificate of Analysis

Client Information

NCAT LLC 4 Long Shoals Rd Arden, NC 28704 USA 702-886-2056 Sample Information

Date Received: 9/5/2023 Date Tested: 9/12/2023

Description: YELLOW MAENG DA CAPSULES

Results

Analysis	Method	†MDL / LOQ	Specification	Results	UOM	Lab ID
K2A Profile						1
Complete Micro Profile	USP <2021>, USP <2022>, AOAC 991.14					1
Total Plate Count (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Coliforms	AOAC 991.14	100	Record Only	None Detected	cfu's/g	1
E. coli	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Staphylococcus aureus	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Salmonella	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Yeast (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Mold (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Heavy Metals	ARL ICPMS 8.016					7
Arsenic (As)	ARL ICPMS 8.016	0.001	Record Only	0.309	ppm	1
Cadmium (Cd)	ARL ICPMS 8.016	0.001	Record Only	0.020	ppm	1
Mercury (Hg)	ARL ICPMS 8.016	0.001	Record Only	0.020	ppm	1
Lead (Pb)	ARL ICPMS 8.016	0.001	Record Only	0.716	ppm	1
Mitragynine Package	ARL 2.046					1
Mitragynine	ARL 2.046	0.03	Record Only	1.27	%	1
7-Hydroxy-Mitragynine	ARL 2.046	0.04	Record Only	<0.04	%	1



Description: YELLOW MAENG DA CAPSULES



Results

Analysis	Method	†MDL / LOQ	Specification	Results	UOM	Lab ID
FTIR Package	ARL 8.012					1
Appearance	ARL 2.003		Record Only	Powder		4
Color	ARL 2.003		Record Only	Light Olive		1
Odor	ARL 2.003		Record Only	Characteristic		1
FT-IR Analysis	ARL 8.012	0.1	> 95	99.7	%	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.

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Certificate of Analysis

Sample Information

ARL ID: 697024 Date Received: 9/5/2023 Date Tested: 9/12/2023

Description: WHITE THAI CAPSULES



Client Information

NCAT LLC 4 Long Shoals Rd Arden, NC 28704 USA 702-886-2056

Results

Analysis	Method	†MDL / LOQ	Specification	Results	UOM	Lab ID
K2A Profile						1
Complete Micro Profile	USP <2021>, USP <2022>, AOAC 991.14					1
Total Plate Count (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Coliforms	AOAC 991.14	100	Record Only	None Detected	cfu's/g	1
E. coli	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Staphylococcus aureus	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Salmonella	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Yeast (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Mold (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Heavy Metals	ARL ICPMS 8.016					1
Arsenic (As)	ARL ICPMS 8.016	0.001	Record Only	0.706	ppm	1
Cadmium (Cd)	ARL ICPMS 8.016	0.001	Record Only	0.018	ppm	1
Mercury (Hg)	ARL ICPMS 8.016	0.001	Record Only	0.020	ppm	1
Lead (Pb)	ARL ICPMS 8.016	0.001	Record Only	0.528	ppm	1
Mitragynine Package	ARL 2.046					1
Mitragynine	ARL 2.046	0.03	Record Only	1.45	%	1
7-Hydroxy-Mitragynine	ARL 2.046	0.04	Record Only	<0.04	%	1

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Description: WHITE THAI CAPSULES



		Results				
Analysis	Method	TMPL / LOQ	Specification	Results	UOM	Lab ID
FTIR Package	ARL 8.012					111
Appearance	ARL 2.003		Record Only	Powder		1
Color	ARL 2.003		Record Only	Light Olive		1
Odor	ARL 2.003		Record Only	Characteristic		1
FT-IR Analysis	ARL 8.012	0.1	> 95	99.5	%	3

¹Method 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.

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Sample Information

ARL ID: 697024 Date Received: 9/5/2023

Date Received: 9/5/2023

Date Tested: 9/12/2023

Description: GREEN BORNEO CAPSULES



Client Information

NCAT LLC 4 Long Shoals Rd Arden, NC 28704 USA 702-886-2056

Results

Analysis	Method	†MDL./LOQ	Specification	Results	11011	
K2A Profile	tero crio u	WDL. / LOQ	Specification	Results	UOM	Lab ID
Complete Micro Profile	USP <2021>, USP <2022>, AOAC 991.14					1
Total Plate Count (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Coliforms	AOAC 991.14	100	Record Only	None Detected	cfu's/g	1
E. coli	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Staphylococcus aureus	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Salmonella	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Yeast (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Mold (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Heavy Metals	ARL ICPMS 8.016					(d
Arsenic (As)	ARL ICPMS 8.016	0.001	Record Only	0.706	ppm	1
Cadmium (Cd)	ARL ICPMS 8.016	0.001	Record Only	0.018	ppm	1
Mercury (Hg)	ARL ICPMS 8.016	0.001	Record Only	0.020	ppm	1
Lead (Pb)	ARL ICPMS 8.016	0.001	Record Only	0.528	ppm	1
Mitragynine Package	ARL 2.046				, ,	1
Mitragynine	ARL 2.046	0.03	Record Only	1.45	%	1
7-Hydroxy-Mitragynine	ARL 2.046	0.04	Record Only	<0.04	%	1

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Description: GREEN BORNEO CAPSULES



Results

Analysis	Method	TMDL/LOQ	Specification	Results	UOM	Lab ID
FTIR Package	ARL 8.012					1
Appearance	ARL 2.003		Record Only	Powder		1
Color	ARL 2.003		Record Only	Light Olive		d
Odor	ARL 2.003		Record Only	Characteristic		1
FT-IR Analysis	ARL 8.012	0.1	> 95	99.5	%	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.

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Sample Information

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Date Received: 9/5/2023

Date Tested: 9/12/2023

Description: WHITE MAENG DA CAPSULES



Client Information

NCAT LLC 4 Long Shoals Rd Arden, NC 28704 USA 702-886-2056

Results

Analysis	Method	TMDL / LOQ	Specification	Results	UOM	Lab ID
K2A Profile						1
Complete Micro Profile	USP <2021>, USP <2022>, AOAC 991.14					1
Total Plate Count (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Coliforms	AOAC 991.14	100	Record Only	None Detected	cfu's/g	1
E. coli	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Staphylococcus aureus	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Salmonella	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Yeast (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Mold (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Heavy Metals	ARL ICPMS 8.016					1
Arsenic (As)	ARL ICPMS 8.016	0.001	Record Only	0.706	ppm	1
Cadmium (Cd)	ARL ICPMS 8.016	0.001	Record Only	0.018	ppm	1
Mercury (Hg)	ARL ICPMS 8.016	0.001	Record Only	0.020	ppm	1
Lead (Pb)	ARL ICPMS 8.016	0.001	Record Only	0.528	ppm	1
Mitragynine Package	ARL 2.046					1
Mitragynine	ARL 2.046	0.03	Record Only	1.45	%	1
7-Hydroxy-Mitragynine	ARL 2.046	0.04	Record Only	<0.04	%	1

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Description: WHITE MAENG DA CAPSULES



		Results				
Analysis	Method	†MDL / LOQ	Specification	Results	MOU	Lab ID
FTIR Package	ARL 8.012					ĭ
Appearance	ARL 2.003		Record Only	Powder		1
Color	ARL 2.003		Record Only	Light Olive		1
Odor	ARL 2.003		Record Only	Characteristic		10
FT-IR Analysis	ARL 8.012	0.1	> 95	99.5	%	1

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.

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[†]Method Detection Limit (MDL):



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ARL ID: 697024 Date Received: 9/5/2023 Date Tested: 9/12/2023

Description: WHITE BALL CAPSULES



Client Information

NCAT LLC 4 Long Shoals Rd Arden, NC 28704 USA 702-886-2056

Results

Analysis	Method	†MDL / LOQ	Specification	Results	UOM	Lab ID
K2A Profile						1
Complete Micro Profile	USP <2021>, USP <2022>, AOAC 991.14					1
Total Plate Count (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Coliforms	AOAC 991.14	100	Record Only	None Detected	cfu's/g	1
E. coli	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Staphylococcus aureus	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Salmonella	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Yeast (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Mold (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Heavy Metals	ARL ICPMS 8.016					1
Arsenic (As)	ARL ICPMS 8.016	0.001	Record Only	0.706	ppm	1
Cadmium (Cd)	ARL ICPMS 8.016	0.001	Record Only	0.018	ppm	1
Mercury (Hg)	ARL ICPMS 8.016	0.001	Record Only	0.020	ppm	1
Lead (Pb)	ARL ICPMS 8.016	0.001	Record Only	0.528	ppm	1
Mitragynine Package	ARL 2.046					1
Mitragynine	ARL 2.046	0.03	Record Only	1.45	%	1
7-Hydroxy-Mitragynine	ARL 2.046	0.04	Record Only	<0.04	%	1

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Description: WHITE BALI CAPSULES



Results

Analysis	Method	MDL / LOQ	Specification	Resuits	UOM	Lab ID
FTIR Package	ARL 8.012					1
Appearance	ARL 2.003		Record Only	Powder		1
Color	ARL 2.003		Record Only	Light Olive		+
Odor	ARL 2.003		Record Only	Characteristic		1
FT-IR Analysis	ARL 8.012	0.1	> 95	99.5	%	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.

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Client Information

NCAT LLC 4 Long Shoals Rd Arden, NC 28704 USA 702-886-2056 Sample Information

ARL ID: 697024

Date Received: 9/5/2023 Date Tested: 9/12/2023

Description: GREEN MALAY KRATOM CAPSULES

Results

Analysis	Method	TMDL / LOQ	Specification	Results	NOM	Lab ID
K2A Profile						1
Complete Micro Profile	USP <2021>, USP <2022>, AOAC 991.14					1
Total Plate Count (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Coliforms	AOAC 991.14	100	Record Only	None Detected	cfu's/g	1
E. coli	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Staphylococcus aureus	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Salmonella	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Yeast (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Mold (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Heavy Metals	ARL ICPMS 8.016					1
Arsenic (As)	ARL ICPMS 8.016	0.001	Record Only	0.706	ppm	1
Cadmium (Cd)	ARL ICPMS 8.016	0.001	Record Only	0.018	ppm	1
Mercury (Hg)	ARL ICPMS 8.016	0.001	Record Only	0.020	ppm	1
Lead (Pb)	ARL ICPMS 8.016	0.001	Record Only	0.528	ppm	1
Mitragynine Package	ARL 2.046					1
Mitragynine	ARL 2.046	0.03	Record Only	1.45	%	1
7-Hydroxy-Mitragynine	ARL 2.046	0.04	Record Only	<0.04	%	1

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Description: GREEN MALAY KRATOM CAPSULES



		Results				
Analysis	Method	†MDL / LOQ	Specification	Results	UOM	Lab ID
FTIR Package	ARL 8.012					11
Appearance	ARL 2.003		Record Only	Powder		1
Color	ARL 2.003		Record Only	Light Olive		1
Odor	ARL 2.003		Record Only	Characteristic		196
FT-IR Analysis	ARL 8.012	0.1	> 95	99.5	%	1

†Method Detection Limit (MDL): In microbiological testing, this is the minimum level of growth that can be delected 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 roport an exact number.

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Certificate of Analysis

Client Information

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Sample Information

Date Received: 9/5/2023 Date Tested: 9/12/2023

Description: YELLOW VIETNAM CAPSULES

Results

		11000110				
Analysis	Method	†MDL/LOQ	Specification	Results	UOM	Lab ID
K2A Profile						1
Complete Micro Profile	USP <2021>, USP <2022>, AOAC 991.14					1
Total Plate Count (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Coliforms	AOAC 991.14	100	Record Only	None Detected	cfu's/g	1
E. coli	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Staphylococcus aureus	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Salmonella	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Yeast (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Mold (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Heavy Metals	ARL ICPMS 8.016					1
Arsenic (As)	ARL ICPMS 8.016	0.001	Record Only	0.309	ppm	1
Cadmium (Cd)	ARL ICPMS 8.016	0.001	Record Only	0.020	ppm	1
Mercury (Hg)	ARL ICPMS 8.016	0.001	Record Only	0.020	ppm	1
Lead (Pb)	ARL ICPMS 8.016	0.001	Record Only	0.716	ppm	1
Mitragynine Package	ARL 2.046					3
Mitragynine	ARL 2.046	0.03	Record Only	1.27	%	1
7-Hydroxy-Mitragynine	ARL 2.046	0.04	Record Only	<0.04	%	1



Description: YELLOW VIETNAM CAPSULES



Results

Analysis	Method	†MDL / LOQ	Specification	Results	UOM	Lab ID
FTIR Package	ARL 8.012					1
Appearance	ARL 2.003		Record Only	Powder		1
Color	ARL 2.003		Record Only	Light Olive		1
Odor	ARL 2.003		Record Only	Characteristic		180
FT-IR Analysis	ARL 8,012	0.1	> 95	99,7	%	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.

¹Limit 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.

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Certificate of Analysis

Sample Information

ARL ID: 697024 Date Received: 9/5/2023 Date Tested: 9/12/2023

Description: WHITE BORNEO CAPSULES



Client Information

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Results

		Results					
Analysis	Method	†MDL / LOQ	Specification	Results	UOM	Lab ID	
K2A Profile						1	
Complete Micro Profile	USP <2021>, USP <2022>, AOAC 991.14					1	
Total Plate Count (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1	
Coliforms	AOAC 991.14	100	Record Only	None Detected	cfu's/g	1	
E. coll	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1	
Staphylococcus aureus	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1	
Salmonella	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1	
Yeast (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1	
Mold (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1	
Heavy Metals	ARL ICPMS 8.016					1	
Arsenic (As)	ARL ICPMS 8.016	0.001	Record Only	0.706	ppm	1	
Cadmium (Cd)	ARL ICPMS 8.016	0.001	Record Only	0.018	ppm	1	
Mercury (Hg)	ARL ICPMS 8.016	0.001	Record Only	0.020	ppm	1	
Lead (Pb)	ARL ICPMS 8.016	0.001	Record Only	0.528	ppm	1	
Mitragynine Package	ARL 2.046					1	
Mitragynine	ARL 2.046	0.03	Record Only	1.45	%	1	
7-Hydroxy-Mitragynine	ARL 2.046	0.04	Record Only	<0.04	%	1	

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Date Received: 9/5/2023

Date Tested: 9/12/2023 Description: WHITE BORNEO CAPSULES



Results

Analysis	Method	TMDL / LOQ	Specification	Results	UOM	Lab ID
FTIR Package	ARL 8.012					1
Appearance	ARL 2.003		Record Only	Powder		1
Color	ARL 2.003		Record Only	Light Olive		1
Odor	ARL 2.003		Record Only	Characteristic		œ
FT-IR Analysis	ARL 8.012	0.1	> 95	99.5	%	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.

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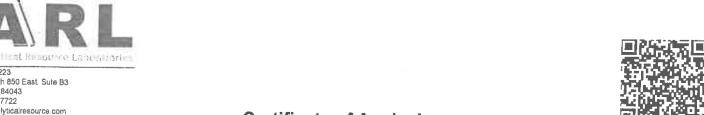
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Certificate of Analysis

Sample Information

ARL ID: 697024 Date Received: 9/5/2023 Date Tested: 9/12/2023

Description: RED VIETNAM CAPSULES

Results

Analysis	Method	TMDL / LOQ	Specification	Results	UOM	Lab ID
K2A Profile						. 1
Complete Micro Profile	USP <2021>, USP <2022>, AOAC 991.14					1
Total Plate Count (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Coliforms	AOAC 991.14	100	Record Only	None Detected	cfu's/g	1
E. coli	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Staphylococcus aureus	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Salmonella	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Yeast (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Mold (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Heavy Metals	ARL ICPMS 8.016					1
Arsenic (As)	ARL ICPMS 8.016	0.001	Record Only	0.706	ppm	1
Cadmium (Cd)	ARL ICPMS 8.016	0.001	Record Only	0.018	ppm	1
Mercury (Hg)	ARL ICPMS 8.016	0.001	Record Only	0.020	ppm	1
Lead (Pb)	ARL ICPMS 8.016	0.001	Record Only	0.528	ppm	1
Mitragynine Package	ARL 2.046					Ť
Mitragynine	ARL 2.046	0.03	Record Only	1.45	%	1
7-Hydroxy-Mitragynine	ARL 2.046	0.04	Record Only	<0.04	%	1

Form: arlcoa031201a Report: 697024 Printed on: 9/12/2023 4:42:12 PM



Description: RED VIETNAM CAPSULES



Results

Analysis	Method	MDL / LOQ	Specification	Results	UOM	Lab ID
FTIR Package	ARL 8.012					1
Appearance	ARL 2.003		Record Only	Powder		1
Color	ARL 2.003		Record Only	Light Olive		76
Odor	ARL 2.003		Record Only	Characteristic		1
FT-IR Analysis	ARL 8.012	0.1	> 95	99.5	%	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.

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ARL ID: 697024 Date Received: 9/5/2023

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Date Tested: 9/12/2023

Description: RED THAI CAPSULES



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Resuits

Analysis	Method	†MDL / LOQ	Specification	Results	UOM	Lab ID
K2A Profile						7
Complete Micro Profile	USP <2021>, USP <2022>, AOAC 991.14					1
Total Plate Count (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Coliforms	AOAC 991.14	100	Record Only	None Detected	cfu's/g	1
E. coli	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Staphylococcus aureus	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Salmonella	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Yeast (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Mold (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Heavy Metals	ARL ICPMS 8.016					1
Arsenic (As)	ARL ICPMS 8.016	0.001	Record Only	0.706	ppm	1
Cadmium (Cd)	ARL ICPMS 8.016	0.001	Record Only	0.018	ppm	1
Mercury (Hg)	ARL ICPMS 8.016	0.001	Record Only	0.020	ppm	1
Lead (Pb)	ARL ICPMS 8.016	0.001	Record Only	0.528	ppm	1
Mitragynine Package	ARL 2.046					1
Mitragynine	ARL 2.046	0.03	Record Only	1.45	%	1
7-Hydroxy-Mitragynine	ARL 2.046	0.04	Record Only	<0.04	%	1

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Description: RED THAI CAPSULES



		Results				
Analysis	Method	TMDL/LOQ	Specification	Results	UOM	Lab ID
FTIR Package	ARL. 8.012					1
Appearance	ARL 2.003		Record Only	Powder		1
Color	ARL 2.003		Record Only	Light Olive		1
Odor	ARL 2.003		Record Only	Characteristic		1
FT-IR Analysis	ARL 8.012	0.1	> 95	99.5	%	1

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.

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[†]Method Detection Limit (MDL):



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Sample Information

ARL ID: 697024 Date Received: 9/5/2023 Date Tested: 9/12/2023

Description: RED INDO CAPSULES

Results

Analysis	Method	†MDL / LOQ	Specification	Results	UOM	Lab ID
K2A Profile						1
Complete Micro Profile	USP <2021>, USP <2022>, AOAC 991.14					1
Total Plate Count (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Coliforms	AOAC 991.14	100	Record Only	None Detected	cfu's/g	1
E. coli	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Staphylococcus aureus	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Salmonella	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Yeast (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Mold (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Heavy Metals	ARL ICPMS 8.016					1
Arsenic (As)	ARL ICPMS 8.016	0.001	Record Only	0.706	ppm	1
Cadmium (Cd)	ARL ICPMS 8.016	0.001	Record Only	0.018	ppm	1
Mercury (Hg)	ARL ICPMS 8.016	0.001	Record Only	0.020	ppm	1
Lead (Pb)	ARL ICPMS 8,016	0.001	Record Only	0.528	ppm	1
Mitragynine Package	ARL 2.046					*
Mitragynine	ARL 2.046	0.03	Record Only	1.45	%	1
7-Hydroxy-Mitragynine	ARL 2.046	0.04	Record Only	<0.04	%	1

Form: arlcoa031201a Report: 697024 Printed on: 9/12/2023 4:42:12 PM

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Date Released: 9/12/2023



Description: RED INDO CAPSULES



Results

Analysis	Method	†MDL/LOQ	Specification	Results	UOM	Lab ID
FTIR Package	ARL 8.012					10
Appearance	ARL 2.003		Record Only	Powder		1
Color	ARL 2.003		Record Only	Light Olive		1
Odor	ARL 2.003		Record Only	Characteristic		1
FT-IR Analysis	ARL 8.012	0.1	> 95	99.5	%	

†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. means any detected amount was too small to report an exact number.

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Sample Information

ARL ID: 697024 Date Received: 9/5/2023 Date Tested: 9/12/2023

Description: RED DRAGON CAPSULES

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Analysis	Method	†MDL / LOQ	Specification	Results	UOM	Lab ID
K2A Profile						11
Complete Micro Profile	USP <2021>, USP <2022>, AOAC 991.14					1
Total Plate Count (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Coliforms	AOAC 991.14	100	Record Only	None Detected	cfu's/g	1
E. coli	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Staphylococcus aureus	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Salmonella	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Yeast (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Mold (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Heavy Metals	ARL ICPMS 8.016					1
Arsenic (As)	ARL ICPMS 8.016	0.001	Record Only	0.706	ppm	1
Cadmium (Cd)	ARL ICPMS 8.016	0.001	Record Only	0.018	ppm	1
Mercury (Hg)	ARL ICPMS 8.016	0.001	Record Only	0.020	ppm	1
Lead (Pb)	ARL ICPMS 8.016	0.001	Record Only	0.528	ppm	1
Mitragynine Package	ARL 2.046					1
Mitragynine	ARL 2.046	0.03	Record Only	1.45	%	1
7-Hydroxy-Mitragynine	ARL 2.046	0.04	Record Only	<0.04	%	1

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Description: RED DRAGON CAPSULES



Results

Analysis	Method	†MDL/LOQ	Specification	Results	MOU	Lab (D
FTIR Package	ARL 8.012					1
Appearance	ARL 2.003		Record Only	Powder		1
Color	ARL 2.003		Record Only	Light Olive		(4)
Odor	ARL 2.003		Record Only	Characteristic		1
FT-IR Analysis	ARL 8.012	0.1	> 95	99.5	%	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

[†]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.

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Sample Information

ARL ID: 697024 Date Received: 9/5/2023 Date Tested: 9/12/2023

Description: RED BORNEO CAPSULES

Results								
Analysis	Method	†MDL/LOQ	Specification	Results	UOM	Lab ID		
K2A Profile						1		
Complete Micro Profile	USP <2021>, USP <2022>, AOAC 991.14					1		
Total Plate Count (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1		
Coliforms	AOAC 991.14	100	Record Only	None Detected	cfu's/g	1		
E, coll	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1		
Staphylococcus aureus	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1		
Salmonella	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1		
Yeast (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1		
Mold (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1		
Heavy Metals	ARL ICPMS 8.016					1		
Arsenic (As)	ARL ICPMS 8.016	0.001	Record Only	0.706	ppm	1		
Cadmium (Cd)	ARL ICPMS 8.016	0.001	Record Only	0.018	ppm	1		
Mercury (Hg)	ARL ICPMS 8.016	0.001	Record Only	0.020	ppm	1		
Lead (Pb)	ARL ICPMS 8.016	0.001	Record Only	0.528	ppm	1		
Mitragynine Package	ARL 2.046					15		
Mitragynine	ARL 2.046	0.03	Record Only	1.45	%	1		
7-Hydroxy-Mitragynine	ARL 2,046	0.04	Record Only	<0.04	%	1		

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Description: RED BORNEO CAPSULES



Results

Analysis	Method	TMDL/LOQ	Specification	Results	UOM	Lab ID
FTIR Package	ARL 8.012					1
Appearance	ARL 2.003		Record Only	Powder		1
Color	ARL 2.003		Record Only	Light Olive		1
Odor	ARL 2.003		Record Only	Characteristic		10
FT-IR Analysis	ARL 8.012	0.1	> 95	99.5	%	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.

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ARL ID: 697024 Date Received: 9/5/2023 Date Tested: 9/12/2023

Description: RED BALI CAPSULES

Results

Analysis	Method	MDL / LOQ	Specification	Results	UOM	Lab ID
K2A Profile						1
Complete Micro Profile	USP <2021>, USP <2022>, AOAC 991.14					1
Total Plate Count (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Coliforms	AOAC 991.14	100	Record Only	None Detected	cfu's/g	1
E. coli	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Staphylococcus aureus	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Salmonella	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Yeast (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Mold (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Heavy Metals	ARL ICPMS 8.016					1
Arsenic (As)	ARL ICPMS 8.016	0.001	Record Only	0.706	ppm	1
Cadmium (Cd)	ARL ICPMS 8.016	0.001	Record Only	0.018	ppm	1
Mercury (Hg)	ARL ICPMS 8.016	0.001	Record Only	0.020	ppm	1
Lead (Pb)	ARL ICPMS 8,016	0.001	Record Only	0.528	ppm	1
Mitragynine Package	ARL 2,046					1
Mitragynine	ARL 2.046	0.03	Record Only	1.45	%	1
7-Hydroxy-Mitragynine	ARL 2.046	0.04	Record Only	<0.04	%	1

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Date Released: 9/12/2023



Description: RED BALI CAPSULES



		Results				
Analysis	Method	†MDL / LOQ	Specification	Results	UOM	Lab ID
FTIR Package	ARL 8.012					1
Appearance	ARL 2.003		Record Only	Powder		. 1
Color	ARL 2.003		Record Only	Light Olive		1
Odor	ARL 2.003		Record Only	Characteristic		1
FT-IR Analysis	ARL 8.012	0.1	> 95	99.5	%	1

[†]Method Detection Limit (MDL):

In microbiological fasting, 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.

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Client Information

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ARL ID: 697024 Date Received: 9/5/2023 Date Tested: 9/12/2023

Description: GREEN SUMATRA KRATOM CAPSULES

Results

Analysis	Method	†MDL / LOQ	Specification	Results	UOM	Lab ID
K2A Profile						î
Complete Micro Profile	USP <2021>, USP <2022>, AOAC 991.14					1
Total Plate Count (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Coliforms	AOAC 991.14	100	Record Only	None Detected	cfu's/g	1
E. coli	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Staphylococcus aureus	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Salmonella	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Yeast (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Mold (High Count)	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Heavy Metals	ARL ICPMS 8.016					1
Arsenic (As)	ARL ICPMS 8.016	0.001	Record Only	0.706	ppm	1
Cadmium (Cd)	ARL ICPMS 8.016	0.001	Record Only	0.018	ppm	1
Mercury (Hg)	ARL ICPMS 8.016	0.001	Record Only	0.020	ppm	1
Lead (Pb)	ARL ICPMS 8.016	0.001	Record Only	0.528	ppm	1
Mitragynine Package	ARL 2.046					31
Mitragynine	ARL 2.046	0.03	Record Only	1.45	%	1
7-Hydroxy-Mitragynine	ARL 2.046	0.04	Record Only	<0.04	%	1

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Description: GREEN SUMATRA KRATOM CAPSULES



Results

Analysis	Method	TMDL / LOQ	Specification	Results	UOM	Lab ID
FTIR Package	ARL 8.012					1
Appearance	ARL 2.003		Record Only	Powder		1
Color	ARL 2.003		Record Only	Light Olive		1
Odor	ARL 2.003		Record Only	Characteristic		1
FT-IR Analysis	ARL 8.012	0.1	> 95	99.5	%	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):

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