



47-2854223
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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

Analysis	Method	Results		UOM	Lab ID
		†MDL / LOQ	Specification		
<u>K2A Profile</u>					1
<u>Complete Micro Profile</u>	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
<u>Heavy Metals</u>	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
<u>Mitragynine Package</u>	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
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 Description: GREEN MAENG DA POWDER



Results

Analysis	Method	†MDL / LOQ	Specification	Results	UOM	Lab ID
<u>FTIR Package</u>	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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Sample Information

ARL ID: 697024
 Date Received: 9/5/2023
 Date Tested: 9/12/2023
 Description: GREEN BALI KRATOM POWDER

Analysis	Method	Results		Results	UOM	Lab ID
		†MDL / LOQ	Specification			
<u>K2A Profile</u>						1
<u>Complete Micro Profile</u>	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
<u>Heavy Metals</u>	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
<u>Mitragynine Package</u>	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



Analysis	Method	Results		UOM	Lab ID
		†MDL / LOQ	Specification		
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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Sample Information

ARL ID: 697024
 Date Received: 9/5/2023
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 Description: GREEN VIETNAM KRATOM POWDER

Analysis	Method	Results		Results	UOM	Lab ID
		†MDL / LOQ	Specification			
<u>K2A Profile</u>						1
<u>Complete Micro Profile</u>	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
<u>Heavy Metals</u>	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
<u>Mitragynine Package</u>	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
<u>FTIR Package</u>	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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Sample Information

ARL ID: 697024
 Date Received: 9/5/2023
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 Description: GREEN MALAY KRATOM POWDER

Analysis	Method	Results		UOM	Lab ID
		MDL / LOQ	Specification		
<u>K2A Profile</u>					1
<u>Complete Micro Profile</u>	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
<u>Heavy Metals</u>	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
<u>Mitragynine Package</u>	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	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):

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Sample Information

ARL ID: 697024
 Date Received: 9/5/2023
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 Description: GREEN INDO POWDER

Analysis	Method	Results		Results	UOM	Lab ID
		MDL / LOQ	Specification			
<u>K2A Profile</u>						1
<u>Complete Micro Profile</u>	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
<u>Heavy Metals</u>	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
<u>Mitragynine Package</u>	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 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-IR Analysis	ARL 8.012	0.1	> 95	99.5	%	1

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Sample Information

ARL ID: 697024
Date Received: 9/5/2023
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Description: GREEN BORNEO POWDER

Analysis	Method	Results		Results	UOM	Lab ID
		MDL / LOQ	Specification			
<u>K2A Profile</u>						1
<u>Complete Micro Profile</u>	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
<u>Heavy Metals</u>	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
<u>Mitragynine Package</u>	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



Analysis	Method	Results		Results	UOM	Lab ID
		[†] MDL / LOQ	Specification			
<u>FTIR Package</u>	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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Sample Information

ARL ID: 697024
 Date Received: 9/5/2023
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 Description: GREEN THAI KRATOM POWDER

Analysis	Method	Results		Results	UOM	Lab ID
		MDL / LOQ	Specification			
<u>K2A Profile</u>						
<u>Complete Micro Profile</u>	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
<u>Heavy Metals</u>	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
<u>Mitragynine Package</u>	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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		†MDL / LOQ	Specification			
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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 Date Received: 9/5/2023
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 Description: RED BALI KRATOM POWDER

Analysis	Method	Results		Results	UOM	Lab ID
		MDL / LOQ	Specification			
<u>K2A Profile</u>						1
<u>Complete Micro Profile</u>	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
<u>Heavy Metals</u>	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
<u>Mitragynine Package</u>	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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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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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

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 4 Long Shoals Rd
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Sample Information

ARL ID: 697024
 Date Received: 9/5/2023
 Date Tested: 9/12/2023
 Description: RED BORNEO KRATOM POWDER

Analysis	Method	Results		Results	UOM	Lab ID
		MDL / LOQ	Specification			
<u>K2A Profile</u>						1
<u>Complete Micro Profile</u>	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
<u>Heavy Metals</u>	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
<u>Mitragynine Package</u>	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: aricoa031201a Report: 697024
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Date Received: 9/5/2023
 Date Tested: 9/12/2023
 Description: RED BORNEO 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.

†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 KRATOM POWDER

Analysis	Method	Results		Results	UOM	Lab ID
		MDL / LOQ	Specification			
<u>K2A Profile</u>						1
<u>Complete Micro Profile</u>	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
<u>Heavy Metals</u>	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
<u>Mitragynine Package</u>	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: 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 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: WHITE ELEPHANT KRATOM POWDER

Analysis	Method	Results		Results	UOM	Lab ID
		MDL / LOQ	Specification			
<u>K2A Profile</u>						1
<u>Complete Micro Profile</u>	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
<u>Heavy Metals</u>	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
<u>Mitragynine Package</u>	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 ELEPHANT KRATOM POWDER



Analysis	Method	Results			UOM	Lab ID
		†MDL / LOQ	Specification	Results		
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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Sample Information

ARL ID: 697024
 Date Received: 9/5/2023
 Date Tested: 9/12/2023
 Description: WHITE MAENG DA POWDER

Analysis	Method	Results		Results	UOM	Lab ID
		MDL / LOQ	Specification			
<u>K2A Profile</u>						1
<u>Complete Micro Profile</u>	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
<u>Heavy Metals</u>	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
<u>Mitragynine Package</u>	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 MAENG DA POWDER



Analysis	Method	Results		Results	UOM	Lab ID
		†MDL / LOQ	Specification			
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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Sample Information

Date Received: 9/5/2023
 Date Tested: 9/12/2023
 Description: GOLD MAENG DA KRATOM POWDER

Analysis	Method	Results		Results	UOM	Lab ID
		†MDL / LOQ	Specification			
<u>K2A Profile</u>						†
<u>Complete Micro Profile</u>	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
<u>Heavy Metals</u>	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
<u>Mitragynine Package</u>	ARL 2.046					†
Mitragynine	ARL 2.046	0.03	Record Only	1.27	%	1
7-Hydroxy-Mitragynine	ARL 2.046	0.04	Record Only	<0.04	%	1



Analysis	Method	Results				Lab ID
		MDL / LOQ	Specification	Results	UOM	
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	99.7	%	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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Sample Information

Date Received: 9/5/2023
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 Description: GOLD BALI KRATOM POWDER

Analysis	Method	Results				UOM	Lab ID
		MDL / LOQ	Specification	Results			
<u>K2A Profile</u>							1
<u>Complete Micro Profile</u>	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
<u>Heavy Metals</u>	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
<u>Mitragynine Package</u>	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



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	99.7	%	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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Sample Information

Date Received: 9/5/2023
 Date Tested: 9/12/2023
 Description: CHOCOLATE KRATOM POWDER

Analysis	Method	Results		Results	UOM	Lab ID
		MDL / LOQ	Specification			
<u>K2A Profile</u>						1
<u>Complete Micro Profile</u>	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
<u>Heavy Metals</u>	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
<u>Mitragynine Package</u>	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



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	99.7	%	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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Sample Information

ARL ID: 697024
 Date Received: 9/5/2023
 Date Tested: 9/12/2023
 Description: GREEN MAENG DA KRATOM CAPSULES

Analysis	Method	Results		Results	UOM	Lab ID
		MDL / LOQ	Specification			
<u>K2A Profile</u>						1
<u>Complete Micro Profile</u>	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
<u>Heavy Metals</u>	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
<u>Mitragynine Package</u>	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
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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		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

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Sample Information

ARL ID: 697024
 Date Received: 9/5/2023
 Date Tested: 9/12/2023
 Description: RED MAENG DA CAPSULES

Analysis	Method	Results		UOM	Lab ID
		MDL / LOQ	Specification		
<u>K2A Profile</u>					1
<u>Complete Micro Profile</u>	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
<u>Heavy Metals</u>	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
<u>Mitragynine Package</u>	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: 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		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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Sample Information

Date Received: 9/5/2023
 Date Tested: 9/12/2023
 Description: YELLOW MAENG DA CAPSULES

Analysis	Method	Results		Results	UOM	Lab ID
		†MDL / LOQ	Specification			
<u>K2A Profile</u>						1
<u>Complete Micro Profile</u>	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
<u>Heavy Metals</u>	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
<u>Mitragynine Package</u>	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



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
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	99.7	%	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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Sample Information

ARL ID: 697024
 Date Received: 9/5/2023
 Date Tested: 9/12/2023
 Description: WHITE THAI CAPSULES

Analysis	Method	Results		Specification	Results	UOM	Lab ID
		MDL	LOQ				
<u>K2A Profile</u>							1
<u>Complete Micro Profile</u>	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
<u>Heavy Metals</u>	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
<u>Mitragynine Package</u>	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 THAI CAPSULES



Results						
Analysis	Method	†MDL / LOQ	Specification	Results	UOM	Lab ID
<u>FTIR Package</u>	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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Sample Information

ARL ID: 697024
 Date Received: 9/5/2023
 Date Tested: 9/12/2023
 Description: GREEN BORNEO CAPSULES

Analysis	Method	Results		Results	UOM	Lab ID
		†MDL / LOQ	Specification			
<u>K2A Profile</u>						1
<u>Complete Micro Profile</u>	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
<u>Heavy Metals</u>	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
<u>Mitragynine Package</u>	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: GREEN BORNEO 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 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: WHITE MAENG DA CAPSULES

Analysis	Method	Results		Results	UOM	Lab ID
		MDL / LOQ	Specification			
<u>K2A Profile</u>						1
<u>Complete Micro Profile</u>	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
<u>Heavy Metals</u>	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
<u>Mitragynine Package</u>	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



Date Received: 9/5/2023
 Date Tested: 9/12/2023
 Description: WHITE MAENG DA CAPSULES



Analysis	Method	Results		Results	UOM	Lab ID
		†MDL / LOQ	Specification			
<u>FTIR Package</u>	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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Sample Information

ARL ID: 697024
 Date Received: 9/5/2023
 Date Tested: 9/12/2023
 Description: WHITE BALI CAPSULES

Analysis	Method	Results		Results	UOM	Lab ID
		MDL / LOQ	Specification			
<u>K2A Profile</u>						1
<u>Complete Micro Profile</u>	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
<u>Heavy Metals</u>	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
<u>Mitragynine Package</u>	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 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 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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Sample Information

ARL ID: 697024
 Date Received: 9/5/2023
 Date Tested: 9/12/2023
 Description: GREEN MALAY KRATOM CAPSULES

Analysis	Method	Results		Results	UOM	Lab ID
		MDL / LOQ	Specification			
<u>K2A Profile</u>						1
<u>Complete Micro Profile</u>	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
<u>Heavy Metals</u>	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
<u>Mitragynine Package</u>	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: aricoa031201a Report: 697024
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 Date Released: 9/12/2023



Date Received: 9/5/2023
 Date Tested: 9/12/2023
 Description: GREEN MALAY KRATOM CAPSULES



Analysis	Method	Results		Results	UOM	Lab ID
		†MDL / LOQ	Specification			
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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Sample Information

Date Received: 9/5/2023
 Date Tested: 9/12/2023
 Description: YELLOW VIETNAM CAPSULES

Analysis	Method	Results		Results	UOM	Lab ID
		MDL / LOQ	Specification			
<u>K2A Profile</u>						1
<u>Complete Micro Profile</u>	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
<u>Heavy Metals</u>	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
<u>Mitragynine Package</u>	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



Date Received: 9/5/2023
 Date Tested: 9/12/2023
 Description: YELLOW VIETNAM CAPSULES



Analysis	Method	Results				Lab ID
		†MDL / LOQ	Specification	Results	UOM	
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	99.7	%	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

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Sample Information

ARL ID: 697024
 Date Received: 9/5/2023
 Date Tested: 9/12/2023
 Description: WHITE BORNEO CAPSULES

Analysis	Method	Results		Results	UOM	Lab ID
		MDL / LOQ	Specification			
<u>K2A Profile</u>						1
<u>Complete Micro Profile</u>	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
<u>Heavy Metals</u>	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
<u>Mitragynine Package</u>	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
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 Description: WHITE BORNEO 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 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 VIETNAM CAPSULES

Analysis	Method	Results		Results	UOM	Lab ID
		MDL / LOQ	Specification			
<u>K2A Profile</u>						1
<u>Complete Micro Profile</u>	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
<u>Heavy Metals</u>	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
<u>Mitragynine Package</u>	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: 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		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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Sample Information

ARL ID: 697024
 Date Received: 9/5/2023
 Date Tested: 9/12/2023
 Description: RED THAI CAPSULES

Analysis	Method	MDL / LOQ	Specification	Results	UOM	Lab ID
<u>K2A Profile</u>						
<u>Complete Micro Profile</u>	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
<u>Heavy Metals</u>						
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
<u>Mitragynine Package</u>						
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: RED THAI CAPSULES



Analysis	Method	Results		Results	UOM	Lab ID
		†MDL / LOQ	Specification			
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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Sample Information

ARL ID: 697024
 Date Received: 9/5/2023
 Date Tested: 9/12/2023
 Description: RED INDO CAPSULES

Analysis	Method	Results		Results	UOM	Lab ID
		MDL / LOQ	Specification			
<u>K2A Profile</u>						1
<u>Complete Micro Profile</u>	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
<u>Heavy Metals</u>	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
<u>Mitragynine Package</u>	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: RED INDO CAPSULES



Analysis	Method	Results		UOM	Lab ID
		†MDL / LOQ	Specification		
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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Sample Information

ARL ID: 697024
 Date Received: 9/5/2023
 Date Tested: 9/12/2023
 Description: RED DRAGON CAPSULES

Analysis	Method	Results		Results	UOM	Lab ID
		MDL / LOQ	Specification			
<u>K2A Profile</u>						1
<u>Complete Micro Profile</u>	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
<u>Heavy Metals</u>	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
<u>Mitragynine Package</u>	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



Date Received: 9/5/2023
 Date Tested: 9/12/2023
 Description: RED DRAGON 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 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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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
<u>K2A Profile</u>						1
<u>Complete Micro Profile</u>	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
<u>Heavy Metals</u>	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
<u>Mitragynine Package</u>	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
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Date Released: 9/12/2023



Date Received: 9/5/2023
 Date Tested: 9/12/2023
 Description: RED BORNEO 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 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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Sample Information

ARL ID: 697024
 Date Received: 9/5/2023
 Date Tested: 9/12/2023
 Description: RED BALI CAPSULES

Analysis	Method	MDL / LOQ	Specification	Results	UOM	Lab ID
<u>K2A Profile</u>						1
<u>Complete Micro Profile</u>	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
<u>Heavy Metals</u>	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
<u>Mitragynine Package</u>	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: RED BALI CAPSULES



Analysis	Method	Results		Results	UOM	Lab ID
		†MDL / LOQ	Specification			
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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Sample Information

ARL ID: 697024
 Date Received: 9/5/2023
 Date Tested: 9/12/2023
 Description: GREEN SUMATRA KRATOM CAPSULES

Analysis	Method	Results		Results	UOM	Lab ID
		MDL / LOQ	Specification			
<u>K2A Profile</u>						1
<u>Complete Micro Profile</u>	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
<u>Heavy Metals</u>	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
<u>Mitragynine Package</u>	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: GREEN SUMATRA 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		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.

Under accreditation number 77504, ARL is an ISO/IEC 17025:2017 Accredited Laboratory. Uncertainty data for ISO-scoped methods is available upon request. Certificate and scope are also available upon request.