

Kraoma LLC 8565 S Eastern Ave Ste 150 Las Vegas, NV 89074 Phone: (702) 983-9664

Received: 9/21/2022 @ 21.6 °C

Report ID: 2209695

Sample ID	Analyzed	Sample Description	Analysis	Result	Units	Method Code
2209695-001	9/26/2022	Red Bali	Arsenic (As)	0.162	mg/kg (ppm)	ICPMS.1
	9/26/2022		Cadmium (Cd)	< 0.010	mg/kg (ppm)	ICPMS.1
	9/26/2022		Lead (Pb)	0.257	mg/kg (ppm)	ICPMS.1
	9/26/2022		Mercury (Hg)	0.017	mg/kg (ppm)	ICPMS.1
	9/21/2022		7-Hydroxymitragynine	< 0.010	%	MIT.1
	9/21/2022		Mitragynine	1.99	%	MIT.1
	9/21/2022		Salmonella spp.	Negative	/25 g	Salm.1
	9/21/2022		Aerobic Plate Count	300	CFU/g	ACR.1a
	9/21/2022		Total Coliform Bacteria	< 100	CFU/g	TC.1a
	9/21/2022		Enterobacteriaceae	< 100	CFU/g	EB.1a
	9/21/2022		Escherichia coli	< 100	CFU/g	EC.1a
	9/21/2022		Staphylococcus aureus	< 100	CFU/g	STA.1a
	9/21/2022		Yeast and Mold	< 100	CFU/g	YM.1a

Mitragynine concentration includes Paynantheine at approximately 0.2 - 0.6%.

RPC 9-26-22

Reported By:

Ryan Connelly, Chemistry Laboratory Manager, 9/26/2022

#### Methodology:

ACR.1a: AC by mass via AOAC 2015.13 (Petrifilm™) Prep: Quantitative Initial Dilution EC.1a: EC by mass via AOAC 991.14, 998.08 (Petrifilm™) Prep: Quantitative Initial Dilution

MIT.1: Mitragynine via AOAC 2017.14

STA.1a: S. aureus by mass via AOAC 2003.07, 2003.08, 2003.11 (Petrifilm<sup>TM</sup>) Prep: Quantitative Initial Dilution

YM.1a: YM by mass via AOAC RI 121301 (Petrifilm™) Prep: Quantitative Initial Dilution

EB.1a : EB by mass via AOAC 2003.01 (Petrifilm<sup>TM</sup>) Prep: Quantitative Initial Dilution

ICPMS.1: Metals via FDA - EAM:2008 (ICP/MS) Prep: Digestion, Microwave

Salm.1: Salmonella via AOAC 081201, 2013.02 (BAX® PCR)



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2209695-002	9/26/2022	White Maeng Da	Arsenic (As)	0.187	mg/kg (ppm)	ICPMS.1
	9/26/2022		Cadmium (Cd)	< 0.010	mg/kg (ppm)	ICPMS.1
	9/26/2022		Lead (Pb)	0.232	mg/kg (ppm)	ICPMS.1
	9/26/2022		Mercury (Hg)	0.020	mg/kg (ppm)	ICPMS.1
	9/21/2022		7-Hydroxymitragynine	< 0.010	%	MIT.1
	9/21/2022		Mitragynine	1.86	%	MIT.1
	9/21/2022		Salmonella spp.	Negative	/25 g	Salm.1
	9/21/2022		Aerobic Plate Count	100	CFU/g	ACR.1a
	9/21/2022		Total Coliform Bacteria	< 100	CFU/g	TC.1a
	9/21/2022		Enterobacteriaceae	< 100	CFU/g	EB.1a
	9/21/2022		Escherichia coli	< 100	CFU/g	EC.1a
	9/21/2022		Staphylococcus aureus	< 100	CFU/g	STA.1a
	9/21/2022		Yeast and Mold	< 100	CFU/g	YM.1a

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#### Methodology:

ACR.1a: AC by mass via AOAC 2015.13 (Petrifilm™) Prep: Quantitative Initial Dilution EC.1a: EC by mass via AOAC 991.14, 998.08 (Petrifilm™) Prep: Quantitative Initial Dilution

MIT.1: Mitragynine via AOAC 2017.14

STA.1a: S. aureus by mass via AOAC 2003.07, 2003.08, 2003.11 (Petrifilm<sup>TM</sup>) Prep: Quantitative Initial Dilution

YM.1a: YM by mass via AOAC RI 121301 (Petrifilm™) Prep: Quantitative Initial Dilution

EB.1a : EB by mass via AOAC 2003.01 (Petrifilm  $^{\text{TM}}$  ) Prep: Quantitative Initial Dilution

ICPMS.1: Metals via FDA - EAM:2008 (ICP/MS) Prep: Digestion, Microwave

Salm.1: Salmonella via AOAC 081201, 2013.02 (BAX® PCR)



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Sample ID	Analyzed	Sample Description	Analysis	Result	Units	Method Code
2209695-003	9/26/2022	White Horn	Arsenic (As)	0.098	mg/kg (ppm)	ICPMS.1
	9/26/2022		Cadmium (Cd)	0.013	mg/kg (ppm)	ICPMS.1
	9/26/2022		Lead (Pb)	0.352	mg/kg (ppm)	ICPMS.1
	9/26/2022		Mercury (Hg)	0.019	mg/kg (ppm)	ICPMS.1
	9/21/2022		7-Hydroxymitragynine	< 0.010	%	МІТ.1
	9/21/2022		Mitragynine	1.76	%	МІТ.1
	9/21/2022		Salmonella spp.	Negative	/25 g	Salm.1
	9/21/2022		Aerobic Plate Count	400	CFU/g	ACR.1a
	9/21/2022		Total Coliform Bacteria	< 100	CFU/g	TC.1a
	9/21/2022		Enterobacteriaceae	< 100	CFU/g	EB.1a
	9/21/2022		Escherichia coli	< 100	CFU/g	EC.1a
	9/21/2022		Staphylococcus aureus	< 100	CFU/g	STA.1a
	9/21/2022		Yeast and Mold	< 100	CFU/g	YM.1a

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#### Methodology:

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MIT.1: Mitragynine via AOAC 2017.14

STA.1a: S. aureus by mass via AOAC 2003.07, 2003.08, 2003.11 (Petrifilm<sup>TM</sup>) Prep: Quantitative Initial Dilution

YM.1a: YM by mass via AOAC RI 121301 (Petrifilm™) Prep: Quantitative Initial Dilution

EB.1a : EB by mass via AOAC 2003.01 (Petrifilm  $^{\text{TM}}$  ) Prep: Quantitative Initial Dilution

ICPMS.1: Metals via FDA - EAM:2008 (ICP/MS) Prep: Digestion, Microwave

Salm.1: Salmonella via AOAC 081201, 2013.02 (BAX® PCR)



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2209695-004	9/26/2022	Green Horn	Arsenic (As)	0.117	mg/kg (ppm)	ICPMS.1
	9/26/2022		Cadmium (Cd)	0.012	mg/kg (ppm)	ICPMS.1
	9/26/2022		Lead (Pb)	0.134	mg/kg (ppm)	ICPMS.1
	9/26/2022		Mercury (Hg)	0.018	mg/kg (ppm)	ICPMS.1
	9/21/2022		7-Hydroxymitragynine	< 0.010	%	MIT.1
	9/21/2022		Mitragynine	1.88	%	MIT.1
	9/21/2022		Salmonella spp.	Negative	/25 g	Salm.1
	9/21/2022		Aerobic Plate Count	100	CFU/g	ACR.1a
	9/21/2022		Total Coliform Bacteria	< 100	CFU/g	TC.1a
	9/21/2022		Enterobacteriaceae	< 100	CFU/g	EB.1a
	9/21/2022		Escherichia coli	< 100	CFU/g	EC.1a
	9/21/2022		Staphylococcus aureus	< 100	CFU/g	STA.1a
	9/21/2022		Yeast and Mold	< 100	CFU/g	YM.1a

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MIT.1: Mitragynine via AOAC 2017.14

STA.1a: S. aureus by mass via AOAC 2003.07, 2003.08, 2003.11 (Petrifilm<sup>TM</sup>) Prep: Quantitative Initial Dilution

YM.1a: YM by mass via AOAC RI 121301 (Petrifilm™) Prep: Quantitative Initial Dilution

EB.1a: EB by mass via AOAC 2003.01 (Petrifilm™) Prep: Quantitative Initial Dilution

ICPMS.1: Metals via FDA - EAM:2008 (ICP/MS) Prep: Digestion, Microwave

Salm.1: Salmonella via AOAC 081201, 2013.02 (BAX® PCR)



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2209695-005	9/26/2022	Yellow Bali	Arsenic (As)	0.133	mg/kg (ppm)	ICPMS.1
	9/26/2022		Cadmium (Cd)	0.014	mg/kg (ppm)	ICPMS.1
	9/26/2022		Lead (Pb)	0.217	mg/kg (ppm)	ICPMS.1
	9/26/2022		Mercury (Hg)	0.018	mg/kg (ppm)	ICPMS.1
	9/21/2022		7-Hydroxymitragynine	< 0.010	%	MIT.1
	9/21/2022		Mitragynine	1.71	%	MIT.1
	9/21/2022		Salmonella spp.	Negative	/25 g	Salm.1
	9/21/2022		Aerobic Plate Count	1,100	CFU/g	ACR.1a
	9/21/2022		Total Coliform Bacteria	< 100	CFU/g	TC.1a
	9/21/2022		Enterobacteriaceae	< 100	CFU/g	EB.1a
	9/21/2022		Escherichia coli	< 100	CFU/g	EC.1a
	9/21/2022		Staphylococcus aureus	< 100	CFU/g	STA.1a
	9/21/2022		Yeast and Mold	< 100	CFU/g	YM.1a

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MIT.1: Mitragynine via AOAC 2017.14

STA.1a: S. aureus by mass via AOAC 2003.07, 2003.08, 2003.11 (Petrifilm<sup>TM</sup>) Prep: Quantitative Initial Dilution

YM.1a: YM by mass via AOAC RI 121301 (Petrifilm™) Prep: Quantitative Initial Dilution

EB.1a : EB by mass via AOAC 2003.01 (Petrifilm  $^{\text{TM}}$  ) Prep: Quantitative Initial Dilution

ICPMS.1: Metals via FDA - EAM:2008 (ICP/MS) Prep: Digestion, Microwave

Salm.1: Salmonella via AOAC 081201, 2013.02 (BAX® PCR)



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2209695-006	9/26/2022	Green Malay	Arsenic (As)	0.217	mg/kg (ppm)	ICPMS.1
	9/26/2022		Cadmium (Cd)	0.015	mg/kg (ppm)	ICPMS.1
	9/26/2022		Lead (Pb)	0.421	mg/kg (ppm)	ICPMS.1
	9/26/2022		Mercury (Hg)	0.023	mg/kg (ppm)	ICPMS.1
	9/21/2022		7-Hydroxymitragynine	< 0.010	%	МІТ.1
	9/21/2022		Mitragynine	1.61	%	МІТ.1
	9/21/2022		Salmonella spp.	Negative	/25 g	Salm.1
	9/21/2022		Aerobic Plate Count	200	CFU/g	ACR.1a
	9/21/2022		Total Coliform Bacteria	< 100	CFU/g	TC.1a
	9/21/2022		Enterobacteriaceae	< 100	CFU/g	EB.1a
	9/21/2022		Escherichia coli	< 100	CFU/g	EC.1a
	9/21/2022		Staphylococcus aureus	< 100	CFU/g	STA.1a
	9/21/2022		Yeast and Mold	< 100	CFU/g	YM.1a

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MIT.1: Mitragynine via AOAC 2017.14

STA.1a: S. aureus by mass via AOAC 2003.07, 2003.08, 2003.11 (Petrifilm<sup>TM</sup>) Prep: Quantitative Initial Dilution

YM.1a: YM by mass via AOAC RI 121301 (Petrifilm™) Prep: Quantitative Initial Dilution

EB.1a : EB by mass via AOAC 2003.01 (Petrifilm  $^{\text{TM}}$  ) Prep: Quantitative Initial Dilution

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Salm.1: Salmonella via AOAC 081201, 2013.02 (BAX® PCR)



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Sample ID	Analyzed	Sample Description	Analysis	Result	Units	Method Code
2209695-007	9/26/2022	Red Thai	Arsenic (As)	0.126	mg/kg (ppm)	ICPMS.1
	9/26/2022		Cadmium (Cd)	0.010	mg/kg (ppm)	ICPMS.1
	9/26/2022		Lead (Pb)	0.291	mg/kg (ppm)	ICPMS.1
	9/26/2022		Mercury (Hg)	0.020	mg/kg (ppm)	ICPMS.1
	9/21/2022		7-Hydroxymitragynine	< 0.010	%	MIT.1
	9/21/2022		Mitragynine	1.70	%	MIT.1
	9/21/2022		Salmonella spp.	Negative	/25 g	Salm.1
	9/21/2022		Aerobic Plate Count	600	CFU/g	ACR.1a
	9/21/2022		Total Coliform Bacteria	100	CFU/g	TC.1a
	9/21/2022		Enterobacteriaceae	< 100	CFU/g	EB.1a
	9/21/2022		Escherichia coli	< 100	CFU/g	EC.1a
	9/21/2022		Staphylococcus aureus	< 100	CFU/g	STA.1a
	9/21/2022		Yeast and Mold	< 100	CFU/g	YM.1a

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#### Methodology:

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MIT.1: Mitragynine via AOAC 2017.14

STA.1a: S. aureus by mass via AOAC 2003.07, 2003.08, 2003.11 (Petrifilm<sup>TM</sup>) Prep: Quantitative Initial Dilution

YM.1a: YM by mass via AOAC RI 121301 (Petrifilm™) Prep: Quantitative Initial Dilution

EB.1a: EB by mass via AOAC 2003.01 (Petrifilm™) Prep: Quantitative Initial Dilution

ICPMS.1: Metals via FDA - EAM:2008 (ICP/MS) Prep: Digestion, Microwave

Salm.1: Salmonella via AOAC 081201, 2013.02 (BAX® PCR)



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Sample ID	Analyzed	Sample Description	Analysis	Result	Units	Method Code
2209695-008	9/26/2022	Green Bali	Arsenic (As)	0.146	mg/kg (ppm)	ICPMS.1
	9/26/2022		Cadmium (Cd)	< 0.010	mg/kg (ppm)	ICPMS.1
	9/26/2022		Lead (Pb)	0.276	mg/kg (ppm)	ICPMS.1
	9/26/2022		Mercury (Hg)	0.020	mg/kg (ppm)	ICPMS.1
	9/21/2022		7-Hydroxymitragynine	< 0.010	%	MIT.1
	9/21/2022		Mitragynine	1.92	%	MIT.1
	9/21/2022		Salmonella spp.	Negative	/25 g	Salm.1
	9/21/2022		Aerobic Plate Count	1,000	CFU/g	ACR.1a
	9/21/2022		Total Coliform Bacteria	100	CFU/g	TC.1a
	9/21/2022		Enterobacteriaceae	< 100	CFU/g	EB.1a
	9/21/2022		Escherichia coli	< 100	CFU/g	EC.1a
	9/21/2022		Staphylococcus aureus	< 100	CFU/g	STA.1a
	9/21/2022		Yeast and Mold	< 100	CFU/g	YM.1a

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MIT.1: Mitragynine via AOAC 2017.14

STA.1a: S. aureus by mass via AOAC 2003.07, 2003.08, 2003.11 (Petrifilm<sup>TM</sup>) Prep: Quantitative Initial Dilution

YM.1a: YM by mass via AOAC RI 121301 (Petrifilm™) Prep: Quantitative Initial Dilution

EB.1a : EB by mass via AOAC 2003.01 (Petrifilm  $^{\text{TM}}$  ) Prep: Quantitative Initial Dilution

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2209695-009	9/26/2022	Green Kali	Arsenic (As)	0.144	mg/kg (ppm)	ICPMS.1
	9/26/2022		Cadmium (Cd)	< 0.010	mg/kg (ppm)	ICPMS.1
	9/26/2022		Lead (Pb)	0.204	mg/kg (ppm)	ICPMS.1
	9/26/2022		Mercury (Hg)	0.021	mg/kg (ppm)	ICPMS.1
	9/21/2022		7-Hydroxymitragynine	< 0.010	%	MIT.1
	9/21/2022		Mitragynine	1.84	%	MIT.1
	9/21/2022		Salmonella spp.	Negative	/25 g	Salm.1
	9/21/2022		Aerobic Plate Count	100	CFU/g	ACR.1a
	9/21/2022		Total Coliform Bacteria	< 100	CFU/g	TC.1a
	9/21/2022		Enterobacteriaceae	< 100	CFU/g	EB.1a
	9/21/2022		Escherichia coli	< 100	CFU/g	EC.1a
	9/21/2022		Staphylococcus aureus	< 100	CFU/g	STA.1a
	9/21/2022		Yeast and Mold	< 100	CFU/g	YM.1a

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YM.1a: YM by mass via AOAC RI 121301 (Petrifilm™) Prep: Quantitative Initial Dilution

EB.1a : EB by mass via AOAC 2003.01 (Petrifilm  $^{\text{TM}}$  ) Prep: Quantitative Initial Dilution

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2209695-010	9/26/2022	White Kali	Arsenic (As)	0.136	mg/kg (ppm)	ICPMS.1
	9/26/2022		Cadmium (Cd)	0.013	mg/kg (ppm)	ICPMS.1
	9/26/2022		Lead (Pb)	0.149	mg/kg (ppm)	ICPMS.1
	9/26/2022		Mercury (Hg)	0.019	mg/kg (ppm)	ICPMS.1
	9/21/2022		7-Hydroxymitragynine	< 0.010	%	MIT.1
	9/21/2022		Mitragynine	1.84	%	MIT.1
	9/21/2022		Salmonella spp.	Negative	/25 g	Salm.1
	9/21/2022		Aerobic Plate Count	100	CFU/g	ACR.1a
	9/21/2022		Total Coliform Bacteria	< 100	CFU/g	TC.1a
	9/21/2022		Enterobacteriaceae	< 100	CFU/g	EB.1a
	9/21/2022		Escherichia coli	< 100	CFU/g	EC.1a
	9/21/2022		Staphylococcus aureus	< 100	CFU/g	STA.1a
	9/21/2022		Yeast and Mold	< 100	CFU/g	YM.1a

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MIT.1: Mitragynine via AOAC 2017.14

STA.1a: S. aureus by mass via AOAC 2003.07, 2003.08, 2003.11 (Petrifilm<sup>TM</sup>) Prep: Quantitative Initial Dilution

YM.1a: YM by mass via AOAC RI 121301 (Petrifilm™) Prep: Quantitative Initial Dilution

EB.1a : EB by mass via AOAC 2003.01 (Petrifilm  $^{\text{TM}}$  ) Prep: Quantitative Initial Dilution

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2209695-011	9/26/2022	Red Horn	Arsenic (As)	0.105	mg/kg (ppm)	ICPMS.1
	9/26/2022		Cadmium (Cd)	0.012	mg/kg (ppm)	ICPMS.1
	9/26/2022		Lead (Pb)	0.234	mg/kg (ppm)	ICPMS.1
	9/26/2022		Mercury (Hg)	0.019	mg/kg (ppm)	ICPMS.1
	9/21/2022		7-Hydroxymitragynine	< 0.010	%	MIT.1
	9/21/2022		Mitragynine	1.75	%	MIT.1
	9/21/2022		Salmonella spp.	Negative	/25 g	Salm.1
	9/21/2022		Aerobic Plate Count	200	CFU/g	ACR.1a
	9/21/2022		Total Coliform Bacteria	< 100	CFU/g	TC.1a
	9/21/2022		Enterobacteriaceae	< 100	CFU/g	EB.1a
	9/21/2022		Escherichia coli	< 100	CFU/g	EC.1a
	9/21/2022		Staphylococcus aureus	< 100	CFU/g	STA.1a
	9/21/2022		Yeast and Mold	< 100	CFU/g	YM.1a

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Ryan Connelly, Chemistry Laboratory Manager, 9/26/2022

#### Methodology:

ACR.1a: AC by mass via AOAC 2015.13 (Petrifilm™) Prep: Quantitative Initial Dilution EC.1a: EC by mass via AOAC 991.14, 998.08 (Petrifilm™) Prep: Quantitative Initial Dilution

MIT.1: Mitragynine via AOAC 2017.14

STA.1a: S. aureus by mass via AOAC 2003.07, 2003.08, 2003.11 (Petrifilm<sup>TM</sup>) Prep: Quantitative Initial Dilution

YM.1a: YM by mass via AOAC RI 121301 (Petrifilm™) Prep: Quantitative Initial Dilution

EB.1a : EB by mass via AOAC 2003.01 (Petrifilm  $^{\text{TM}}$  ) Prep: Quantitative Initial Dilution

ICPMS.1: Metals via FDA - EAM:2008 (ICP/MS) Prep: Digestion, Microwave

Salm.1: Salmonella via AOAC 081201, 2013.02 (BAX® PCR)



Kraoma LLC 8565 S Eastern Ave Ste 150 Las Vegas, NV 89074 Phone: (702) 983-9664

Received: 9/21/2022 @ 21.6 °C

Report ID: 2209695

Sample ID	Analyzed	Sample Description	Analysis	Result	Units	Method Code
2209695-012	9/26/2022	Red Kali	Arsenic (As)	0.084	mg/kg (ppm)	ICPMS.1
	9/26/2022		Cadmium (Cd)	0.016	mg/kg (ppm)	ICPMS.1
	9/26/2022		Lead (Pb)	0.315	mg/kg (ppm)	ICPMS.1
	9/26/2022		Mercury (Hg)	0.017	mg/kg (ppm)	ICPMS.1
	9/21/2022		7-Hydroxymitragynine	< 0.010	%	MIT.1
	9/21/2022		Mitragynine	1.73	%	MIT.1
	9/21/2022		Salmonella spp.	Negative	/25 g	Salm.1
	9/21/2022		Aerobic Plate Count	3,600	CFU/g	ACR.1a
	9/21/2022		Total Coliform Bacteria	< 100	CFU/g	TC.1a
	9/21/2022		Enterobacteriaceae	< 100	CFU/g	EB.1a
	9/21/2022		Escherichia coli	< 100	CFU/g	EC.1a
	9/21/2022		Staphylococcus aureus	< 100	CFU/g	STA.1a
	9/21/2022		Yeast and Mold	100	CFU/g	YM.1a

Mitragynine concentration includes Paynantheine at approximately 0.2 - 0.6%.

RPC 9-26-22

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Sample ID	Analyzed	Sample Description	Analysis	Result	Units	Method Code
2209695-013	9/26/2022	White Bali	Arsenic (As)	0.111	mg/kg (ppm)	ICPMS.1
	9/26/2022		Cadmium (Cd)	0.016	mg/kg (ppm)	ICPMS.1
	9/26/2022		Lead (Pb)	0.354	mg/kg (ppm)	ICPMS.1
	9/26/2022		Mercury (Hg)	0.019	mg/kg (ppm)	ICPMS.1
	9/21/2022		7-Hydroxymitragynine	< 0.010	%	MIT.1
	9/21/2022		Mitragynine	1.78	%	MIT.1
	9/21/2022		Salmonella spp.	Negative	/25 g	Salm.1
	9/21/2022		Aerobic Plate Count	300	CFU/g	ACR.1a
	9/21/2022		Total Coliform Bacteria	< 100	CFU/g	TC.1a
	9/21/2022		Enterobacteriaceae	< 100	CFU/g	EB.1a
	9/21/2022		Escherichia coli	< 100	CFU/g	EC.1a
	9/21/2022		Staphylococcus aureus	< 100	CFU/g	STA.1a
	9/21/2022		Yeast and Mold	< 100	CFU/g	YM.1a

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