


MURRAY-BROWN
 LABORATORIES, INC.
PEARL STREET LABORATORY
Certificate of Analysis for
 [REDACTED]
 [REDACTED]
 [REDACTED]
 [REDACTED]

 Received: 10/11/2023 @ 23:17C
 Report ID: 2310489

Sample ID	Analyzed	Sample Description	Analysis	Result	Units	Method Code
2310489-003	10/18/2023	<u>G SUR</u>	Arsenic (As)	0.444	mg/kg (ppm)	0 PMS-1
	10/18/2023		Cadmium (Cd)	0.020	mg/kg (ppm)	0 PMS-1
	10/18/2023		Lead (Pb)	0.927	mg/kg (ppm)	0 PMS-1
	10/18/2023		Mercury (Hg)	0.022	mg/kg (ppm)	0 PMS-1
	10/12/2023		7-Hydroxymitragynine	0.010	%	MB1-1
	10/12/2023		Mitragynine	1.34	%	MB1-1
	10/11/2023		Salmonella spp.	Negative	25 g	Sal-1
	10/11/2023		Total Coliform Bacteria	100	CFU/g	TCR-1a
	10/11/2023		Escherichia coli	100	CFU/g	ECR-1a

Mitragynine concentration includes Taxanthone at approximately 5-25% of the total mitragynine concentration.

RIN: 10/18/23

Reported By:

Ryan Connolly, Chemistry Laboratory Manager, 10/18/2023

Methodology:

 1. K1000-1000 mass spec (MS) 2019-11-13 PerkinElmer 7. (Pep) Quantitative Analysis (PMS-1)
 2. PMS-1: Merck (MS) 2019-11-13 MS: Merck (MS) 2019-11-13 MS: Merck (MS) 2019-11-13
 3. Merck (MS) 2019-11-13 MS: Merck (MS) 2019-11-13 MS: Merck (MS) 2019-11-13

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 Received: 10/11/2023 @ 23:17C
 Report ID: 2310489

Sample ID	Analyzed	Sample Description	Analysis	Result	Units	Method Code
2310489-004	10/18/2023	<u>WCENTER</u>	Arsenic (As)	0.180	mg/kg (ppm)	0 PMS-1
	10/18/2023		Cadmium (Cd)	0.022	mg/kg (ppm)	0 PMS-1
	10/18/2023		Lead (Pb)	0.746	mg/kg (ppm)	0 PMS-1
	10/18/2023		Mercury (Hg)	0.017	mg/kg (ppm)	0 PMS-1
	10/12/2023		7-Hydroxymitragynine	0.010	%	MB1-1
	10/12/2023		Mitragynine	1.33	%	MB1-1
	10/11/2023		Salmonella spp.	Negative	25 g	Sal-1
	10/11/2023		Total Coliform Bacteria	200	CFU/g	TCR-1a
	10/11/2023		Escherichia coli	100	CFU/g	ECR-1a

Mitragynine concentration includes Taxanthone at approximately 5-25% of the total mitragynine concentration.

RIN: 10/18/23

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Ryan Connolly, Chemistry Laboratory Manager, 10/18/2023

Methodology:

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