11455 Pearl St Northglenn, CO 80233 (303) 296-026

MURRAY-BROWN LABORATORIES, INC.
Beyond the Raw Data

Certificate of Analysis for

bigtrea BV
Karveelweg 30
Maastricht, 6222NH

Received: 3/31/2022 @ 23.3 °C
Report ID: 2203A81

Sample ID	Analyzed	Sample Description	Analysis	Result	Units	Method Code
2203A81-001	4/8/2022	bigtrea Premium 1,5% - 76S7880715	Arsenic (As)	0.173	mg/kg (ppm)	ICPMS.1
	4/8/2022		Cadmium (Cd)	0.012	mg/kg (ppm)	ICPMS.1
	4/8/2022		Lead (Pb)	0.256	mg/kg (ppm)	ICPMS.1
	4/8/2022		Mercury (Hg)	0.017	mg/kg (ppm)	ICPMS.1
	4/1/2022		7-Hydroxymitragynine	0.002	%	MIT.1
	4/1/2022		Mitragynine	1.47	%	MIT.1
	4/5/2022		Salmonella spp.	Negative	/25 g	Salm.1a
	4/4/2022		Shiga toxin-producing E. coli	Negative	/25 g	STEC.1.a
	4/4/2022		stx and eae genes	Negative	/25 g	STEC.1.a
	4/5/2022		Aerobic Plate Count	55,000	CFU/g	AC.1a
	4/5/2022		Total Coliform Bacteria	600	CFU/g	CC.1a
	4/5/2022		Escherichia coli	< 100	CFU/g	EC.1a
	4/5/2022		Staphylococcus aureus	< 100	CFU/g	STA.1a
	4/5/2022		Yeast and Mold	3,000	CFU/g	YM.1a

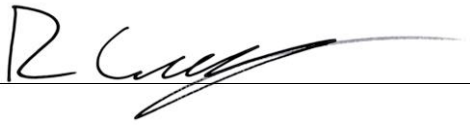
Report ID 2203A81 has been amended as follows: Additional analysis added at client's request. Sample IDs 2203A81-002 and 2203A81-003 removed.

RPC 4-8-22

Mitragynine concentration includes Paynantheine at approximately 0.2 - 0.4%.

7-Hydroxymitragynine reported at actual values found below limit of quantitation.

RPC 4-1-22

Reported By:  Ryan Connelly, Chemistry Laboratory Manager, 4/8/2022

Methodology:

AC.1a : AC by mass via AOAC 990.12 (Petrifilm™) Prep: Initial Dilution

CC.1a : CC by mass via AOAC 991.14, 998.03 (Petrifilm™) Prep: Initial Dilution

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

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

MIT.1 : Mitragynine via AOAC 2017.14

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

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

STEC.1.a : Shiga toxin (stx) & Intimin (eae) genes via AOAC 091301 (BAX® PCR System, STEC Screen)

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