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: 2/7/2022 @ 19.9 °C
Report ID: 2202212

Sample ID	Analyzed	Sample Description	Analysis	Result	Units	Method Code
2202212-001	2/11/2022	Bigtrea Premium 1,3% - 76S7880013	Arsenic (As)	0.262	mg/kg (ppm)	ICPMS.1
	2/11/2022		Cadmium (Cd)	0.010	mg/kg (ppm)	ICPMS.1
	2/11/2022		Lead (Pb)	0.613	mg/kg (ppm)	ICPMS.1
	2/11/2022		Mercury (Hg)	0.036	mg/kg (ppm)	ICPMS.1
	1/3/2022		7-Hydroxymitragynine	0.002	%	MIT.1
	1/3/2022		Mitragynine	1.31	%	MIT.1
	2/7/2022		Salmonella spp.	Negative	/25 g	Salm.1a
	2/7/2022		Shiga toxin-producing E. coli	Negative	/25 g	STEC.1.a
	2/7/2022		stx and eae genes	Negative	/25 g	STEC.1.a
	2/7/2022		Aerobic Plate Count	300	CFU/g	AC.1a
	2/7/2022		Enterobacteriaceae	< 100	CFU/g	EB.1a
	2/7/2022		Staphylococcus aureus	< 100	CFU/g	STA.1a
	2/7/2022		Yeast and Mold	100	CFU/g	YM.1a

Report ID 2202212 has been amended as follows: Mitragynine results transcribed from original analysis of Bigtrea Premium 1,3% - 76S7880013 (Workorder 2112864).

Mitragynine concentration includes Paynantheine at approximately 0.2 - 0.4% of the total mitragynine concentration.

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

RPC 2-15-22

Reported By:  Ryan Connelly, Chemistry Laboratory Manager, 2/15/2022

Methodology:

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

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

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

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

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

MIT.1 : Mitragynine via AOAC 2017.14

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

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