11455 Pearl St Northglenn, CO 80233 (303) 296-0264

MURRAY-BROWN LABORATORIES, INC.
Beyond the Raw Data

Certificate of Analysis for

bigtrea BV
Karveelweg 30
Maastricht, 6222NH

Received: 6/12/2023 @ 20.3 °C
Report ID: 2306403

Sample ID: 2306403-007 **Description:** White Nano - 76S28839BWN_1

ACR.1a: AC by mass via AOAC 2015.13 (Petrifilm™) Analyzed 06/12/23

Aerobic Plate Count	100	CFU/g

CCR.1a: CC by mass via AOAC OM 2018.13 (Petrifilm™) Analyzed 06/12/23

Total Coliform Bacteria	< 100	CFU/g

EB.1a: EB by mass via AOAC 2003.01 (Petrifilm™) Analyzed 06/12/23

Enterobacteriaceae	< 100	CFU/g

ECR.1a: EC by mass via AOAC OM 2018.13 (Petrifilm™) Analyzed 06/12/23

Escherichia coli	< 100	CFU/g

ICPMS.1: Metals via FDA - EAM:2008 (ICP/MS) Analyzed 06/13/23

Arsenic (As)	0.269	mg/kg (ppm)	Cadmium (Cd)	0.017	mg/kg (ppm)
Lead (Pb)	0.581	mg/kg (ppm)	Mercury (Hg)	0.020	mg/kg (ppm)

MIT.2: Kratom Alkaloids via HPLC-DAD Analyzed 06/13/23

7-Hydroxymitragynine	< 0.010	%	Isorhynchophylline	< 0.100	%
Historic Mitragynine	1.23	%	Mitraphylline	< 0.100	%
Paynantheine	0.165	%	Speciociliatine	0.357	%
Speciogynine	0.117	%	Total Alkaloids	1.71	%

Salm.1: Salmonella via AOAC 081201, 2013.02 (BAX® PCR) Analyzed 06/12/23

Salmonella spp.	Negative	/25 g

STA.1a: S. aureus by mass via AOAC 2003.07, 2003.08, 2003.11 (Petrifilm™) Analyzed 06/12/23

Staphylococcus aureus	< 100	CFU/g

STEC.1: E. coli (O157:H7, O26, O45, O103, O111, O121, O145) via AOAC 091301 (BAX® PCR, STEC Screen) Analyzed 06/12/23

Shiga toxin-producing E. coli	Negative	/25 g

YM.1a: YM by mass via AOAC RI 121301 (Petrifilm™) Analyzed 06/12/23

Yeast and Mold	< 100	CFU/g

Historic Mitragynine is defined as the sum of mitragynine and paynantheine to report results equivalent to AOAC 2017.14.

RPC 6-15-23

Reported By: Ryan Connelly, Chemistry Laboratory Manager, 6/19/2023

This document is confidential and is meant solely for the individual or entity designated above. MBL Terms and Conditions apply.
This Certificate of Analysis should only be reproduced in full. Results contained herein are representative of and only apply to the sample portion submitted to or collected by MBL.

Original