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MURRAY-BROWN LABORATORIES, INC.
Beyond the Raw Data

Certificate of Analysis for

bigtrea BV
Karveelweg 30
Maastricht, 6222NH

Received: 6/12/2023 @ 22 °C
Report ID: 2306402

Sample ID: 2306402-007 **Description:** Green Nano - 76S28840BGN_7

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)	0.509	mg/kg (ppm)	Cadmium (Cd)	0.022	mg/kg (ppm)
Lead (Pb)	0.747	mg/kg (ppm)	Mercury (Hg)	0.026	mg/kg (ppm)

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

7-Hydroxymitragynine	< 0.010	%	Isorhynchophylline	< 0.100	%
Historic Mitragynine	1.48	%	Mitraphylline	< 0.100	%
Paynantheine	0.209	%	Speciociliatine	0.488	%
Speciogynine	0.156	%	Total Alkaloids	2.12	%

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

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