

**Certificate of Analysis for**

bigtree BV
Karveelweg 30
Maastricht, 6222NH

Received: 7/5/2023 @ 22 °C
Report ID: 2307074

Sample ID: 2307074-008 **Description:** bigtree Ultra Enhanced 6% - 76S7886460

ACR.1a: AC by mass via AOAC 2015.13 (Petrifilm™) Analyzed 07/05/23

Aerobic Plate Count	13,000	CFU/g
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CCR.1a: CC by mass via AOAC OM 2018.13 (Petrifilm™) Analyzed 07/05/23

Total Coliform Bacteria	100	CFU/g
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EB.1a: EB by mass via AOAC 2003.01 (Petrifilm™) Analyzed 07/05/23

Enterobacteriaceae	1,400	CFU/g
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ECR.1a: EC by mass via AOAC OM 2018.13 (Petrifilm™) Analyzed 07/05/23

Escherichia coli	< 100	CFU/g
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ICPMS.1: Metals via FDA - EAM:2008 (ICP/MS) Analyzed 07/07/23

Arsenic (As)	0.145	mg/kg (ppm)	Cadmium (Cd)	0.011	mg/kg (ppm)
Lead (Pb)	0.242	mg/kg (ppm)	Mercury (Hg)	0.016	mg/kg (ppm)

MIT.2: Kratom Alkaloids via HPLC-DAD Analyzed 07/10/23

7-Hydroxymitragynine	< 0.010	%	Isorhynchophylline	< 0.100	%
Historic Mitragynine	6.21	%	Mitraphylline	< 0.100	%
Paynantheine	0.881	%	Speciociliatine	0.680	%
Speciogyneine	0.557	%	Total Alkaloids	7.45	%

Salm.1: Salmonella via AOAC 081201, 2013.02 (BAX® PCR) Analyzed 07/05/23

Salmonella spp.	Negative	/25 g
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STA.1a: S. aureus by mass via AOAC 2003.07, 2003.08, 2003.11 (Petrifilm™) Analyzed 07/05/23

Staphylococcus aureus	< 100	CFU/g
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STEC.1: E. coli (O157:H7, O26, O45, O103, O111, O121, O145) via AOAC 091301 (BAX® PCR, STEC Screen) Analyzed 07/05/23

Shiga toxin-producing E. coli	Negative	/25 g
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YM.1a: YM by mass via AOAC RI 121301 (Petrifilm™) Analyzed 07/05/23

Yeast and Mold	600	CFU/g
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Historic Mitragynine is defined as the sum of mitragynine and paynantheine to report results equivalent to AOAC 2017.14.

RPC 7-12-23

Reported By:

Ryan Connelly, Chemistry Laboratory Manager, 7/12/2023