

**Certificate of Analysis for**

Upper Left Botanicals, LLC
PO Box 5695
Lacey, WA 98509

Received: 11/22/2022 @ 18.2 °C
Report ID: 2211894

Sample ID	Analyzed	Sample Description	Analysis	Result	Units	Method Code
2211894-001	11/29/2022	07203	Arsenic (As)	0.043	mg/kg (ppm)	ICPMS.1
	11/29/2022		Cadmium (Cd)	0.017	mg/kg (ppm)	ICPMS.1
	11/29/2022		Lead (Pb)	0.679	mg/kg (ppm)	ICPMS.1
	11/29/2022		Mercury (Hg)	0.017	mg/kg (ppm)	ICPMS.1
	11/28/2022		7-Hydroxymitragynine	< 0.010	%	MIT.1
	11/28/2022		Mitragynine	1.62	%	MIT.1
	11/22/2022		Salmonella spp.	Negative	/25 g	Salm.1
	11/22/2022		Shiga toxin-producing E. coli	Negative	/25 g	STEC.1
	11/22/2022		Aerobic Plate Count	7,600	CFU/g	AC.1a
	11/22/2022		Total Coliform Bacteria	< 100	CFU/g	CC.1a
	11/22/2022		Escherichia coli	< 100	CFU/g	EC.1a
	11/22/2022		Staphylococcus aureus	< 100	CFU/g	STA.1a
	11/22/2022		Yeast and Mold	900	CFU/g	YM.1a

Mitragynine concentration includes Paynantheine at approximately 0.2 - 0.4%.

RPC 11-29-22

Reported By:

Ryan Connelly, Chemistry Laboratory Manager, 11/30/2022

Methodology:

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

EC.1a : EC by mass via AOAC 991.14, 998.08 (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

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

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

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

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