

MURRAY-BROWN
LABORATORIES, INC.**Certificate of Analysis for**

Florida Fresh Botanicals

1978 12nd Ave N

Saint Petersburg, FL 33703-4534

Phone: (727) 386-3747

Received: 3/7/2023

@18.6 °C

Report ID: 2303262

Sample ID: 2303262-001 **Description:** Sample #1 - Kratom Powder (Green)**ACR.1a: AC by mass via AOAC 2015.13 (Petrifilm™) Analyzed 03/07/23**

Aerobic Plate Count 4,800 CFU/g

TC.1a: TC by mass via AOAC 991.14, 998.03 (Petrifilm™) Analyzed 03/07/23

Total Coliform Bacteria < 100 CFU/g

EC.1a: EC by mass via AOAC 991.14, 998.08 (Petrifilm™) Analyzed 03/07/23

Escherichia coli < 100 CFU/g

ICPMS.1: Metals via FDA - EAM:2008 (ICP/MS) Analyzed 03/14/23

Arsenic (As)	0.179	mg/kg(ppm)	Cadmium (Cd)	<0.010	mg/kg(ppm)
Lead (Pb)	0.400	mg/kg (ppm)	Mercury (Hg)	0.044	mg/kg(ppm)

MIT.1: Mitragynine via AOAC 2017.14 Analyzed 03/09/23

7-Hydroxymitragynine	<0.010	%	Mitragynine	1.652	%
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Pest.1: Pesticides by LC/MS/MS (Agilent App - Determination of Pesticides and Mycotoxins) Analyzed 03/08/23

Abamectin (Bia+ Bib)	< 50	µg/kg (ppb)	Accephate	< 25	µg/kg (ppb)
Acetaminophen	< 10	µg/kg (ppb)	Acetamiprid	< 10	µg/kg (ppb)
Aldicarb	< 10	µg/kg (ppb)	Azoxystrobin	< 10	µg/kg (ppb)
Bifenazate	< 50	µg/kg (ppb)	Bifenthrin	< 10	µg/kg (ppb)
Boscalid	< 50	µg/kg (ppb)	Carbaryl	< 50	µg/kg (ppb)
Carbofuran	< 25	µg/kg (ppb)	Chlorantraniliprole	< 25	µg/kg (ppb)
Chlorfenapyr	< 100	µg/kg (ppb)	Chlorpyrifos	< 25	µg/kg (ppb)
Clofentezine	< 10	µg/kg (ppb)	Coumaphos	< 10	µg/kg (ppb)
Cyfluthrin (Baythroid)	< 50	µg/kg (ppb)	Cypermethrin	< 50	µg/kg (ppb)
Daminozide	< 25	µg/kg (ppb)	Diazinon	< 10	µg/kg (ppb)
Dibrom (Naled)	< 50	µg/kg (ppb)	Dimethoate	< 25	µg/kg (ppb)
Dimethomorph	< 25	µg/kg (ppb)	Ethofenprox	< 10	µg/kg (ppb)
Ethoprophos (Prophos)	< 25	µg/kg (ppb)	Etoxazole	< 25	µg/kg (ppb)
Fenhexamid	< 50	µg/kg (ppb)	Fenoxycarb	< 10	µg/kg (ppb)
Fenpyroximate	< 25	µg/kg (ppb)	Fipronil	< 10	µg/kg (ppb)
Flonicarnid	< 25	µg/kg (ppb)	Fludioxonil	< 25	µg/kg (ppb)
Hexythiazox	< 10	µg/kg (ppb)	Imazalil	< 25	µg/kg (ppb)
Imidacloprid	< 10	µg/kg (ppb)	Kresoxim Methyl	< 10	µg/kg (ppb)
Malathion	< 100	µg/kg (ppb)	Metalaxyl	< 25	µg/kg (ppb)
Methiocarb	< 50	µg/kg (ppb)	Methomyl	< 25	µg/kg (ppb)
Oxamyl	< 10	µg/kg (ppb)	Paclobutrazol	< 25	µg/kg (ppb)
Permethrins	< 10	µg/kg (ppb)	Phosdrin (Mevinphos)	< 50	µg/kg (ppb)
Phosmet	< 10	µg/kg (ppb)	Piperonyl Butoxide	< 10	µg/kg (ppb)
Prallethrin	< 25	µg/kg (ppb)	Propiconazole	< 25	µg/kg (ppb)
Propoxur	< 50	µg/kg (ppb)	Pyrethrins	< 50	µg/kg (ppb)
Pyridaben	< 10	µg/kg (ppb)	Spinetoram	< 25	µg/kg (ppb)
Spinosad A	< 10	µg/kg (ppb)	Spinosad D	< 50	µg/kg (ppb)
Spiromesifen	< 25	µg/kg (ppb)	Spirotetramat	< 25	µg/kg (ppb)
Spiroxamine	< 50	µg/kg (ppb)	Systhane (Myclobutanil)	< 50	µg/kg (ppb)
Tebuconazole (Folicur)	< 25	µg/kg (ppb)	Thiacloprid	< 25	µg/kg (ppb)
Thiamethoxam	< 25	µg/kg (ppb)	Trifloxystrobin	< 10	µg/kg (ppb)

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Report ID: 2303262

Sample ID: 2303262-001 **Description:** Sample #1- Kratom Powder (Green)**Salm.1: Salmonella via AOAC 081201, 2013.02 (BAX® PCR)**
Analyzed 03/07/23

Salmonella spp. Negative /10 g

STA.1a: S. aureus by mass via AOAC 2003.07, 2003.08, 2003.11
(Petrifilm™) Analyzed 03/07/23

Staphylococcus aureus < 100 CFU/g

STEC.1: E.coli (O157:H7, 026, 045, 0103, 0111, 0121, 0145)
via AOAC 091301 (BAX® PCR, STEC Screen) Analyzed 03/07/23

Shiga toxin-producing E.coli Negative /10 g

YM.1a: YM by mass via AOAC RI 121301 (Petrifilm™) Analyzed
03/07/23

Yeast and Mold 600 CFU/g

Mitragynine concentration includes Paynantheine at approximately 5-20% of the total mitragynine concentration.

RPC 3-10-23

Reported By: Ryan Connelly, Chemistry Laboratory Manager, 3/14/2023