



Certificate of Analysis

Date: Jan 09, 2024

Lot Number: B052923V

Source: *Mitragyna Speciosa*

Type of Sample: Raw Powder

No. of Samples: 15

Legend

TPC	Total plate count
ND	None detected
CFU/g	Colony-forming units per gram
DUP	Duplicate sample
LOQ	Limit of quantification
ug/g	Micrograms per gram
ppm	Parts per million
UHPLC	Ultra-high performance liquid chromatography
ESI	Electrospray ionization
MS/MS	Tandem mass spectrometry

Alkaloid Profile

Alkaloid	Sample 1 (ug/g)	Sample 1 DUP (ug/g)	LOQ (ug/g)	Amount (%)
Mitragynine	9334	9126	0.10	0.923
7-Hydroxymitragynine	52.40	57.0	0.10	0.00547

- **Methods:** solvent extraction; measured by UHPLC-ESI – tandem MS/MS

Heavy Metal Screening

Heavy Metal	Results (ppm)
Antimony	<0.010
Arsenic	0.243
Cadmium	<0.010
Chromium	3.11
Cobalt	<0.100
Copper	0.038
Gold	<0.100
Iron	282
Lanthanum	<0.100
Lead	0.859
Manganese	1181
Mercury	<0.010
Molybdenum	<0.505
Nickel	<0.100
Silver	<0.100
Tin	0.658
Tungsten	<0.100
Vanadium	<0.050
Zinc	13.5

Microbial Screening

Microbe	Results (CFU/g)
Coliforms	ND
<i>Escherichia coli</i>	ND
Enterococci	ND
Fecal	ND
Fungi	ND
Lactose Fermenters	ND
<i>Staphylococcus aureus</i>	ND
<i>Staphylococcus</i> spp.	ND
TPC	60610
Yeast	ND

Data from third-party lab tests verified by Pharmakeia



Quality Control