

# Certificate of Analysis



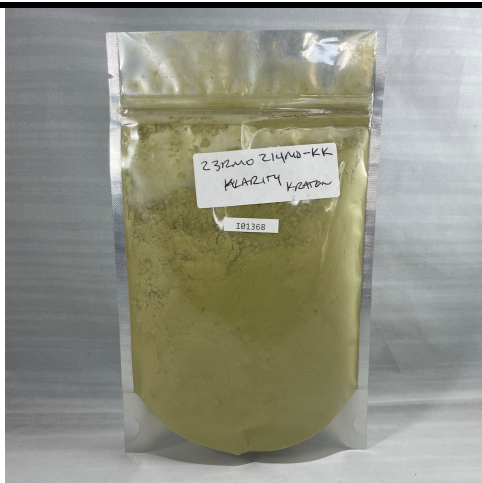
## CUSTOMER INFORMATION

Client Name: Plant Specimen Supply  
 Attention: Mark Thompson  
 Address: 3161 Major St #205  
 Fort Worth, TX 76112  
 Phone Number: (817) 401-4292

## TESTING FACILITY

**Cora Science, LLC**  
 8000 Anderson Square, STE 113  
 Austin, Texas 78757  
 (512) 856-5007  
 info@corascience.com

## SAMPLE IMAGE(S)



## JOB / SAMPLE INFORMATION

**Received:** 17 FEB 2023  
**Condition:** Good  
**Job ID:** ISO01142  
**Sample ID:** I01368  
**Sample Name:** Raw Leaf  
 Lot 23RM0214MD-KK  
**Description:** Finely ground plant material  
**Completed:** 22 FEB 2023  
**Issued:** 23 FEB 2023

## TEST RESULT(S)

Mitragyna Alkaloids Assay (UHPLC-DAD)		Method Code:	T102	Tested: 22FEB2023   0757	
PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Mitragynine	Report Results	1.438	w/w%	0.018	N/A
7-Hydroxymitragynine	Report Results	<LOQ	w/w%	0.018	N/A
Paynantheine	Report Results	0.283	w/w%	0.018	N/A
Speciogynine	Report Results	0.186	w/w%	0.018	N/A
Speciociliatine	Report Results	0.353	w/w%	0.018	N/A
Total Alkaloids	Report Results	2.260	w/w%	0.018	N/A

Mitragyna Alkaloids Assay (UHPLC-DAD)		Method Code:	T102	Tested: 22FEB2023   0757	
PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Mitragynine	Report Results	14.38	mg/g	0.18	N/A
7-Hydroxymitragynine	Report Results	<LOQ	mg/g	0.18	N/A
Paynantheine	Report Results	2.83	mg/g	0.18	N/A
Speciogynine	Report Results	1.86	mg/g	0.18	N/A
Speciociliatine	Report Results	3.53	mg/g	0.18	N/A
Total Alkaloids	Report Results	22.60	mg/g	0.18	N/A

Elemental Impurities (ICP-MS)		Method Code:	EAM 4.8	Tested: 22FEB2023   1252	
PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Arsenic	NMT 1.5	0.200	ug/g	0.041	PASS
Cadmium	NMT 0.5	0.011	ug/g	0.0081	PASS
Lead	NMT 0.5	0.140	ug/g	0.0081	PASS
Mercury	NMT 3.0	<LOQ	ug/g	0.0081	PASS

Microbiological Examination		Method Code:	T005	Tested: 20FEB2023   1233	
PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Total Aerobic Plate Count	10,000,000 CFU/gram	21,200	CFU/gram	20 CFU/gram	PASS
Total Yeast & Mold	100,000 CFU/gram	1,900	CFU/gram	20 CFU/gram	PASS
Total Coliforms	10,000 CFU/gram	360	CFU/gram	20 CFU/gram	PASS
<i>Escherichia coli</i>	Not Detected in 10 grams	Not Detected	N/A	1 CFU/10 grams	PASS
<i>Staphylococcus aureus</i>	Not Detected in 10 grams	Not Detected	N/A	1 CFU/10 grams	PASS
<i>Listeria monocytogenes</i>	Not Detected in 10 grams	Not Detected	N/A	1 CFU/10 grams	PASS
<i>Salmonella</i>	Not Detected in 25 grams	Not Detected	N/A	1 CFU/25 grams	PASS

#### ADDITIONAL REPORT NOTES

EAM 4.8 performed by a registered outsourcing facility.

#### REVISION HISTORY

rev00 Initial release.

This report has been authorized for release from Cora Science by:

**Signature:**  **Department:** Management  
**Name:** Tyler West, Laboratory Director **Date:** 23 FEB 2023

#### ABBREVIATIONS

**ID:** identification, **N/A:** not applicable, **LOQ:** limit of quantitation, **CFU:** colony forming units, **mg:** milligrams, **g:** grams, **ug:** micrograms, **mL:** milliliters, **ND:** not detected, **NMT:** no more than, **NLT:** no less than, **UHPLC:** ultra-high performance liquid chromatography, **GC:** gas chromatography, **DAD:** diode array detection/detector, **MS:** mass spectroscopy/spectrometer, **ICP:** inductively coupled plasma, **ISO:** International Organization for Standardization, **USP:** United States Pharmacopeia