Certificate of Analysis



Customer Information

Client: Super Organics
Attention: (754) 800-5219

Address: 7901 4th St N, STE 300

St. Petersburg, FL 33702

Testing Facility

Lab: Cora Science, LLC

Address 8000 Anderson Square, STE 113

Austin, Texas 78757

Contact: info@corascience.com

(512) 856-5007

Sample Image(s)



Sample Information

Name: Kratom Softgel

Lot Number: ESG03

Description: Liquid botanical extract

Condition: Good

Job ID: ISO01843

Sample ID: I03986

Received: 20MAR2024

Completed: 22MAR2024

Issued: 22MAR2024

Test Results

Mitragyna Alkaloids (UHPLC-DAD)		Method Code: T102		Tested: 21MAR2024 0541	
PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Mitragynine	Report Results	14.4	mg/unit	0.02	N/A
7-Hydroxymitragynine	Report Results	0.067	mg/unit	0.00	N/A
Paynantheine	Report Results	0.738	mg/unit	0.02	N/A
Speciogynine	Report Results	0.568	mg/unit	0.02	N/A
Speciociliatine	Report Results	0.068	mg/unit	0.02	N/A
Total Mitragyna Alkaloids	Report Results	15.8	mg/unit	0.02	N/A N/A

Mitragyna Alkaloids (UHPLC-DAD) Method Code: T102 Tested: 21MAR2024 | 0541

PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Mitragynine	Report Results	2.28	w/w%	0.002	N/A
7-Hydroxymitragynine	Report Results	0.011	w/w%	0.001	N/A
Paynantheine	Report Results	0.117	w/w%	0.002	N/A
Speciogynine	Report Results	0.090	w/w%	0.002	N/A
Speciociliatine	Report Results	0.011	w/w%	0.002	N/A
Total Mitragyna Alkaloids	Report Results	2.51	w/w%	0.002	N/A

Microbiological Examination Method Code: T005 Tested: 20MAR2024 | 1011

PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Total Aerobic Plate Count	10,000 CFU/gram	Not Detected	CFU/gram	10 CFU/gram	PASS
Total Yeast & Mold	1,000 CFU/gram	Not Detected	CFU/gram	10 CFU/gram	PASS
Total Coliforms	100 CFU/gram	Not Detected	CFU/gram	10 CFU/gram	PASS
Escherichia coli	Not Detected in 10 grams	Not Detected	N/A	1 CFU/10 grams	PASS
Salmonella	Not Detected in 25 grams	Not Detected	N/A	1 CFU/25 grams	PASS

Method Code: T201

Tested: 22MAR2024 | 0332

PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
1,1-Dichloroethene	NMT 8	<loq< td=""><td>ug/g</td><td>0.4</td><td>PASS</td></loq<>	ug/g	0.4	PASS
1,1,1-Trichloroethane	NMT 1500	<loq< td=""><td>ug/g</td><td>75</td><td>PASS</td></loq<>	ug/g	75	PASS
Tetrachloromethane	NMT 4	<loq< td=""><td>ug/g</td><td>0.2</td><td>PASS</td></loq<>	ug/g	0.2	PASS
Benzene	NMT 2	<loq< td=""><td>ug/g</td><td>0.1</td><td>PASS</td></loq<>	ug/g	0.1	PASS
1,2-Dichloroethane	NMT 5	<loq< td=""><td>ug/g</td><td>0.25</td><td>PASS</td></loq<>	ug/g	0.25	PASS
Methanol	NMT 3000	<loq< td=""><td>ug/g</td><td>150</td><td>PASS</td></loq<>	ug/g	150	PASS
Acetonitrile	NMT 410	<loq< td=""><td>ug/g</td><td>20.5</td><td>PASS</td></loq<>	ug/g	20.5	PASS
Dichloromethane	NMT 600	<loq< td=""><td>ug/g</td><td>30</td><td>PASS</td></loq<>	ug/g	30	PASS
1,2-Dichloroethene, (E)	NMT 1870	<loq< td=""><td>ug/g</td><td>93.5</td><td>PASS</td></loq<>	ug/g	93.5	PASS
1,2-Dichloroethene, (Z)	NMT 1870	<loq< td=""><td>ug/g</td><td>93.5</td><td>PASS</td></loq<>	ug/g	93.5	PASS
Tetrahydrofuran	NMT 720	<loq< td=""><td>ug/g</td><td>36</td><td>PASS</td></loq<>	ug/g	36	PASS
Cyclohexane	NMT 3880	<loq< td=""><td>ug/g</td><td>194</td><td>PASS</td></loq<>	ug/g	194	PASS
Methylcyclohexane	NMT 1180	<loq< td=""><td>ug/g</td><td>59</td><td>PASS</td></loq<>	ug/g	59	PASS
1,4-Dioxane	NMT 380	<loq< td=""><td>ug/g</td><td>19</td><td>PASS</td></loq<>	ug/g	19	PASS
Toluene	NMT 890	<loq< td=""><td>ug/g</td><td>44.5</td><td>PASS</td></loq<>	ug/g	44.5	PASS
Chlorobenzene	NMT 360	<loq< td=""><td>ug/g</td><td>18</td><td>PASS</td></loq<>	ug/g	18	PASS
Ethylbenzene	NMT 2170	<loq< td=""><td>ug/g</td><td>108.5</td><td>PASS</td></loq<>	ug/g	108.5	PASS
o/p-Xylene	NMT 2170	<loq< td=""><td>ug/g</td><td>108.5</td><td>PASS</td></loq<>	ug/g	108.5	PASS
m-Xylene	NMT 2170	<loq< td=""><td>ug/g</td><td>108.5</td><td>PASS</td></loq<>	ug/g	108.5	PASS
Isopropylbenzene	NMT 70	<loq< td=""><td>ug/g</td><td>3.5</td><td>PASS</td></loq<>	ug/g	3.5	PASS
Hexane	NMT 290	<loq< td=""><td>ug/g</td><td>14.5</td><td>PASS</td></loq<>	ug/g	14.5	PASS
Nitromethane	NMT 50	<loq)< td=""><td>ug/g</td><td>2.5</td><td>PASS</td></loq)<>	ug/g	2.5	PASS
Chloroform	NMT 60	<loq< td=""><td>ug/g</td><td>3</td><td>PASS</td></loq<>	ug/g	3	PASS
1,2-Dimethoxyethane	NMT 100	<loq< td=""><td>ug/g</td><td>5</td><td>PASS</td></loq<>	ug/g	5	PASS
Trichloroethene	NMT 80	<loq< td=""><td>ug/g</td><td>4</td><td>PASS</td></loq<>	ug/g	4	PASS
Pyridine	NMT 200	<loq< td=""><td>ug/g</td><td>10</td><td>PASS</td></loq<>	ug/g	10	PASS
2-Hexanone	NMT 50	<loq< td=""><td>ug/g</td><td>2.5</td><td>PASS</td></loq<>	ug/g	2.5	PASS
Tetralin	NMT 100	<loq< td=""><td>ug/g</td><td>5 (8)</td><td>PASS</td></loq<>	ug/g	5 (8)	PASS
Pentane	NMT 5000	<loq< td=""><td>ug/g</td><td>250</td><td>PASS</td></loq<>	ug/g	250	PASS
Ethanol	NMT 5000	<loq< td=""><td>ug/g</td><td>250</td><td>PASS</td></loq<>	ug/g	250	PASS
Diethyl Ether	NMT 5000	<loq< td=""><td>ug/g</td><td>250</td><td>PASS</td></loq<>	ug/g	250	PASS
Acetone	NMT 5000	317	ug/g	250	PASS
Ethyl Formate	NMT 5000	<loq< td=""><td>ug/g</td><td>250</td><td>PASS</td></loq<>	ug/g	250	PASS
Isopropanol	NMT 5000	<loq< td=""><td>ug/g</td><td>250</td><td>PASS</td></loq<>	ug/g	250	PASS
Methyl Acetate	NMT 5000	<loq< td=""><td>ug/g</td><td>250</td><td>PASS</td></loq<>	ug/g	250	PASS
Methyl tert-Butyl Ether	NMT 5000	<loq< td=""><td>ug/g</td><td>250</td><td>PASS</td></loq<>	ug/g	250	PASS
1-Propanol	NMT 5000	<loq< td=""><td>ug/g</td><td>250</td><td>PASS</td></loq<>	ug/g	250	PASS
2-Butanone	NMT 5000	<loq< td=""><td>ug/g</td><td>250</td><td>PASS</td></loq<>	ug/g	250	PASS
Ethyl Acetate	NMT 5000	<loq< td=""><td>ug/g</td><td>250</td><td>PASS</td></loq<>	ug/g	250	PASS
2-Butanol	NMT 5000	<loq< td=""><td>ug/g</td><td>250</td><td>PASS</td></loq<>	ug/g	250	PASS
2-Methyl-1-Propanol	NMT 5000	<loq< td=""><td>ug/g</td><td>250</td><td>PASS</td></loq<>	ug/g	250	PASS
Isopropyl Acetate	NMT 5000	<loq< td=""><td>ug/g</td><td>250</td><td>PASS</td></loq<>	ug/g	250	PASS
Heptane	NMT 5000	<loq< td=""><td>ug/g</td><td>250</td><td>PASS</td></loq<>	ug/g	250	PASS
1-Butanol	NMT 5000	<loq< td=""><td>ug/g</td><td>250</td><td>PASS</td></loq<>	ug/g	250	PASS
Propyl Acetate	NMT 5000	<l0q< td=""><td>ug/g</td><td>250</td><td>PASS</td></l0q<>	ug/g	250	PASS
4-Methyl-2-Pentanone	NMT 5000	<l0q< td=""><td>ug/g</td><td>250</td><td>PASS</td></l0q<>	ug/g	250	PASS
Isoamyl Alcohol	NMT 5000	<l0q< td=""><td>ug/g</td><td>250</td><td>PASS</td></l0q<>	ug/g	250	PASS
Isobutyl Acetate	NMT 5000	<l0q< td=""><td>ug/g</td><td>250</td><td>PASS</td></l0q<>	ug/g	250	PASS
1-Pentanol	NMT 5000	<loq< td=""><td>ug/g</td><td>250</td><td>PASS</td></loq<>	ug/g	250	PASS
Butyl Acetate Dimothylsulfoyida	NMT 5000	<loq< td=""><td>ug/g</td><td>250</td><td>PASS</td></loq<>	ug/g	250	PASS
Dimethylsulfoxide	NMT 5000	<loq< td=""><td>ug/g</td><td>250</td><td>PASS</td></loq<>	ug/g	250	PASS
Anisole	NMT 5000	<loq< td=""><td>ug/g</td><td>250</td><td>PASS</td></loq<>	ug/g	250	PASS

0.038

<LOQ

Method Code: T301

ug/g

ug/g

Elemental Impurities (ICP-MS)

PARAMETER

Arsenic

Lead

Cadmium

Mercury

			<u> </u>
RESULT	UNIT	LOQ	NOTES
0.057	ug/g	0.050	PASS
<loq< td=""><td>ug/g</td><td>0.0099</td><td>PASS</td></loq<>	ug/g	0.0099	PASS

0.0099

0.0099

Tested: 22MAR2024 | 1019

PASS

PASS

Additional Report Notes

SPECIFICATION

NMT 1.0

NMT 0.4 NMT 1.25

NMT 0.2

T102 result, LOQ and unit converted from w/w% to mg/unit using a laboratory measured unit weight of 0.630 grams. T301 performed by a registered outsourcing facility. Specifications provided by client.

Revision History

rev 00 - Initial release.

Abbreviations

ID: identification, N/A: not applicable, LOQ: limit of quantitation, CFU: colony forming units, w/w%: weight by weight percent, mg: milligrams, g: grams, ug: micrograms, mL: milliliters, ND: not detected, <LOQ: below limit of quantitation, 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

Authorization

Name:

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

Position: Laboratory Director John West

Signature: **Department:** Management 22MAR2024 Date: Tyler West

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