Certificate of Analysis

Customer Information

Client: Kats Botanicals
Attention: mike@katsbotanicals.com
Address: 750 Hickory Industrial
Old Hickory, TN 37138

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: KBE-591-TPS
Lot Number: 591219RGRP
Description: Botanical extract blended with plant material
Condition: Good
Job ID: ISO02313
Sample ID: I05441
Received: 26JUL2024
Completed: 31JUL2024
Issued: 02AUG2024

Test Results

Mitragyna Alkaloids (UHPLC-DAD) **Method Code: T102** **Tested: 30JUL2024 | 1908**

PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Mitragynine	Report Results	2.40	w/w%	0.006	N/A
7-Hydroxymitragynine	Report Results	0.007	w/w%	0.002	N/A
Paynantheine	Report Results	0.440	w/w%	0.006	N/A
Speciogynine	Report Results	0.333	w/w%	0.006	N/A
Speciocilatine	Report Results	0.518	w/w%	0.006	N/A
Total Mitragyna Alkaloids	Report Results	3.70	w/w%	0.006	N/A

Elemental Impurities (ICP-MS) **Method Code: T301** **Tested: 31JUL2024 | 1337**

PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Arsenic	NMT 2.0	0.0697	ug/g	0.006	PASS
Cadmium	NMT 0.5	<LOQ	ug/g	0.002	PASS
Lead	NMT 5.0	0.258	ug/g	0.002	PASS
Mercury	NMT 0.2	0.00930	ug/g	0.002	PASS

Residual Solvents: Class I (GC-MS) **Method Code: T201** **Tested: 31JUL2024 | 0339**

PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
1,1-Dichloroethene	NMT 8	<LOQ	ug/g	0.40	PASS
1,1,1-Trichloroethane	NMT 1500	<LOQ	ug/g	75.0	PASS
Tetrachloromethane	NMT 4	<LOQ	ug/g	0.20	PASS
Benzene	NMT 2	<LOQ	ug/g	0.10	PASS
1,2-Dichloroethane	NMT 5	<LOQ	ug/g	0.25	PASS

Residual Solvents: Class II (GC-MS) **Method Code: T201** **Tested: 31JUL2024 | 0339**

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PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Methanol	NMT 3000	<LOQ	ug/g	94	PASS
Acetonitrile	NMT 410	<LOQ	ug/g	20.5	PASS
Dichloromethane	NMT 600	<LOQ	ug/g	30.0	PASS
1,2-Dichloroethene, (E)	NMT 1870	<LOQ	ug/g	93.5	PASS
1,2-Dichloroethene, (Z)	NMT 1870	<LOQ	ug/g	93.5	PASS
Tetrahydrofuran	NMT 720	<LOQ	ug/g	36.0	PASS
Cyclohexane	NMT 3880	<LOQ	ug/g	194	PASS
Methylcyclohexane	NMT 1180	<LOQ	ug/g	59.0	PASS
1,4-Dioxane	NMT 380	<LOQ	ug/g	19.0	PASS
Toluene	NMT 890	<LOQ	ug/g	44.5	PASS
Chlorobenzene	NMT 360	<LOQ	ug/g	18.0	PASS
Ethylbenzene	NMT 2170	<LOQ	ug/g	109	PASS
o/p-Xylene	NMT 2170	<LOQ	ug/g	109	PASS
m-Xylene	NMT 2170	<LOQ	ug/g	109	PASS
Isopropylbenzene	NMT 70	<LOQ	ug/g	3.50	PASS
Hexane	NMT 290	<LOQ	ug/g	14.5	PASS
Nitromethane	NMT 50	<LOQ	ug/g	2.50	PASS
Chloroform	NMT 60	<LOQ	ug/g	3.00	PASS
1,2-Dimethoxyethane	NMT 100	<LOQ	ug/g	5.00	PASS
Trichloroethene	NMT 80	<LOQ	ug/g	4.00	PASS
Pyridine	NMT 200	<LOQ	ug/g	10.00	PASS
2-Hexanone	NMT 50	<LOQ	ug/g	2.50	PASS
Tetralin	NMT 100	<LOQ	ug/g	5.00	PASS

Residual Solvents: Class III (GC-MS) **Method Code: T201** **Tested: 31JUL2024 | 0339**

PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Pentane	NMT 5000	<LOQ	ug/g	250	PASS
Ethanol	NMT 5000	<LOQ	ug/g	250	PASS
Diethyl Ether	NMT 5000	<LOQ	ug/g	250	PASS
Acetone	NMT 5000	<LOQ	ug/g	250	PASS
Ethyl Formate	NMT 5000	<LOQ	ug/g	250	PASS
Isopropanol	NMT 5000	<LOQ	ug/g	250	PASS
Methyl Acetate	NMT 5000	<LOQ	ug/g	250	PASS
Methyl tert-Butyl Ether	NMT 5000	<LOQ	ug/g	250	PASS
1-Propanol	NMT 5000	<LOQ	ug/g	250	PASS
2-Butanone	NMT 5000	<LOQ	ug/g	250	PASS
Ethyl Acetate	NMT 5000	<LOQ	ug/g	250	PASS
2-Butanol	NMT 5000	<LOQ	ug/g	250	PASS
2-Methyl-1-Propanol	NMT 5000	<LOQ	ug/g	250	PASS
Isopropyl Acetate	NMT 5000	<LOQ	ug/g	250	PASS
Heptane	NMT 5000	<LOQ	ug/g	250	PASS
1-Butanol	NMT 5000	<LOQ	ug/g	250	PASS
Propyl Acetate	NMT 5000	<LOQ	ug/g	250	PASS
4-Methyl-2-Pentanone	NMT 5000	<LOQ	ug/g	250	PASS
Isoamyl Alcohol	NMT 5000	<LOQ	ug/g	250	PASS
Isobutyl Acetate	NMT 5000	<LOQ	ug/g	250	PASS
1-Pentanol	NMT 5000	<LOQ	ug/g	250	PASS
Butyl Acetate	NMT 5000	<LOQ	ug/g	250	PASS
Dimethylsulfoxide	NMT 5000	<LOQ	ug/g	250	PASS
Anisole	NMT 5000	<LOQ	ug/g	250	PASS

Microbiological Examination **Method Code: T005** **Tested: 29JUL2024 | 1533**

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PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Total Aerobic Plate Count	10,000,000 CFU/gram	4,000	CFU/gram	20 CFU/gram	PASS
Total Yeast & Mold	100,000 CFU/gram	150	CFU/gram	20 CFU/gram	PASS
Total Coliforms	10,000 CFU/gram	Not Detected	CFU/gram	20 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

Additional Report Notes

N/A

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

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

Signature: Tyler West

Name: Tyler West

Position: Laboratory Director

Department: Management

Date: 02AUG2024

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