



Certificate of Analysis

Customer Information

Client: Empowered Creations, LLC
Attention: +1 (830) 660-9770
Address: 321 W. Ben White Blvd, Suite 103
Austin, TX 78704

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: King K Rush Emerald
Lot Number: 06/19/25
Description: Ready-to-drink botanical infused beverage
Condition: Good
Job ID: ISO04294
Sample ID: I11556
Received: 23JUN2025
Completed: 25JUN2025
Issued: 26JUN2025

Test Results

Mitragyna Alkaloids (UHPLC-DAD)		Method Code: T102		Tested: 24JUN2025 0943		
PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES	
Mitragynine	Report Results	103	mg/unit	0.42	N/A	
7-Hydroxymitragynine	Report Results	<LOQ	mg/unit	0.42	N/A	
Paynantheine	Report Results	13.3	mg/unit	0.42	N/A	
Speciogynine	Report Results	8.85	mg/unit	0.42	N/A	
Speciociliatine	Report Results	4.62	mg/unit	0.42	N/A	
Total Mitragyna Alkaloids	Report Results	130	mg/unit	0.42	N/A	

Mitragyna Alkaloids (UHPLC-DAD)		Method Code: T102		Tested: 24JUN2025 0943		
PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES	
Mitragynine	Report Results	0.659	w/w%	0.0027	N/A	
7-Hydroxymitragynine	Report Results	<LOQ	w/w%	0.0027	N/A	
Paynantheine	Report Results	0.0852	w/w%	0.0027	N/A	
Speciogynine	Report Results	0.0568	w/w%	0.0027	N/A	
Speciociliatine	Report Results	0.0296	w/w%	0.0027	N/A	
Total Mitragyna Alkaloids	Report Results	0.831	w/w%	0.0027	N/A	

Residual Solvents: Class I (GC-MS)		Method Code: T201		Tested: 24JUN2025 0438		
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	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: 24JUN2025 0438		
PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES	
Methanol	NMT 3000	<LOQ	ug/g	150	PASS	
Acetonitrile	NMT 410	<LOQ	ug/g	41	PASS	
Dichloromethane	NMT 600	<LOQ	ug/g	15	PASS	
1,2-Dichloroethene, (E)	NMT 1870	<LOQ	ug/g	47	PASS	
1,2-Dichloroethene, (Z)	NMT 1870	<LOQ	ug/g	47	PASS	
Tetrahydrofuran	NMT 720	<LOQ	ug/g	18	PASS	
Cyclohexane	NMT 3880	<LOQ	ug/g	97	PASS	
Methylcyclohexane	NMT 1180	<LOQ	ug/g	30	PASS	
1,4-Dioxane	NMT 380	<LOQ	ug/g	38	PASS	
Toluene	NMT 890	<LOQ	ug/g	22	PASS	
Chlorobenzene	NMT 360	<LOQ	ug/g	9.0	PASS	
Ethylbenzene	NMT 2170	<LOQ	ug/g	54	PASS	
o/p-Xylene	NMT 2170	<LOQ	ug/g	54	PASS	
m-Xylene	NMT 2170	<LOQ	ug/g	54	PASS	
Isopropylbenzene	NMT 70	<LOQ	ug/g	1.8	PASS	
Hexane	NMT 290	<LOQ	ug/g	7.3	PASS	
Nitromethane	NMT 50	<LOQ	ug/g	1.3	PASS	
Chloroform	NMT 60	<LOQ	ug/g	1.5	PASS	
1,2-Dimethoxyethane	NMT 100	<LOQ	ug/g	2.5	PASS	
Trichloroethene	NMT 80	<LOQ	ug/g	2.0	PASS	
Pyridine	NMT 200	<LOQ	ug/g	5.0	PASS	
2-Hexanone	NMT 50	<LOQ	ug/g	5.0	PASS	
Tetralin	NMT 100	<LOQ	ug/g	2.5	PASS	

Residual Solvents: Class III (GC-MS)		Method Code: T201		Tested: 24JUN2025 0438		
PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES	
Pentane	NMT 5000	<LOQ	ug/g	125	PASS	
Ethanol	NMT 5000	136,600	ug/g	125	FAIL	
Diethyl Ether	NMT 5000	<LOQ	ug/g	125	PASS	
Acetone	NMT 5000	<LOQ	ug/g	125	PASS	
Ethyl Formate	NMT 5000	<LOQ	ug/g	125	PASS	
Isopropanol	NMT 5000	<LOQ	ug/g	125	PASS	
Methyl Acetate	NMT 5000	<LOQ	ug/g	125	PASS	
Methyl tert-Butyl Ether	NMT 5000	<LOQ	ug/g	125	PASS	
1-Propanol	NMT 5000	<LOQ	ug/g	125	PASS	
2-Butanone	NMT 5000	<LOQ	ug/g	125	PASS	
Ethyl Acetate	NMT 5000	<LOQ	ug/g	125	PASS	
2-Butanol	NMT 5000	<LOQ	ug/g	125	PASS	
2-Methyl-1-Propanol	NMT 5000	<LOQ	ug/g	125	PASS	
Isopropyl Acetate	NMT 5000	<LOQ	ug/g	125	PASS	
Heptane	NMT 5000	<LOQ	ug/g	125	PASS	
1-Butanol	NMT 5000	<LOQ	ug/g	125	PASS	
Propyl Acetate	NMT 5000	<LOQ	ug/g	125	PASS	
4-Methyl-2-Pentanone	NMT 5000	<LOQ	ug/g	125	PASS	

PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Isoamyl Alcohol	NMT 5000	<LOQ	ug/g	125	PASS
Isobutyl Acetate	NMT 5000	<LOQ	ug/g	125	PASS
1-Pentanol	NMT 5000	<LOQ	ug/g	125	PASS
Butyl Acetate	NMT 5000	<LOQ	ug/g	125	PASS
Anisole	NMT 5000	<LOQ	ug/g	125	PASS
Dimethylsulfoxide	NMT 5000	<LOQ	ug/g	125	PASS

Elemental Impurities (ICP-MS)		Method Code: T301		Tested: 24JUN2025 1204	
PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Arsenic	NMT 1.50	<LOQ	ug/g	0.006	PASS
Cadmium	NMT 0.50	<LOQ	ug/g	0.002	PASS
Mercury	NMT 0.20	<LOQ	ug/g	0.002	PASS
Lead	NMT 0.50	0.057	ug/g	0.002	PASS

Microbiological Examination		Method Code: T005		Tested: 23JUN2025 1651	
PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Total Aerobic Plate Count	NMT 10,000,000 CFU/g	<LOQ	CFU/g	10 CFU/g	PASS
Total Yeast and Mold	NMT 100,000 CFU/g	<LOQ	CFU/g	10 CFU/g	PASS
Total Coliforms	NMT 10,000 CFU/g	<LOQ	CFU/g	10 CFU/g	PASS
Escherichia coli	Not Detected in 25 g	Not Detected	N/A	1 CFU/25g	PASS
Salmonella spp.	Not Detected in 25 g	Not Detected	N/A	1 CFU/25g	PASS

Additional Report Notes

T102 result, LOQ and unit converted from w/w% to mg/unit using a laboratory measured density of 1.039 g/mL and package specified fill volume of 15.0 mL.

Revision History

- rev 00 - Initial release.
- rev 01 - Added T005 results.

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:		Position:	Laboratory Director
		Department:	Management
Name:	Tyler West	Date:	26JUN2025