

Certificate of Analysis



Customer Information

Client: Pharmed Innovations LLC
Attention: pharmedinnovations@gmail.com
Address: 1202 South Sheridan Rd.
 Tulsa, OK 74112

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: Markava Citrus Breeze
Lot Number: 010825-markava-CB01
Description: Ready-to-drink botanical infused beverage
Condition: Good
Job ID: ISO03089
Sample ID: I07912
Received: 09JAN2025
Completed: 10JAN2025
Issued: 10JAN2025

Test Results

Mitragyna Alkaloids (UHPLC-DAD)

Method Code: T102

Tested: 10JAN2025 | 1140

PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Mitragynine	Report Results	26.0	mg/unit	0.28	N/A
7-Hydroxymitragynine	Report Results	0.610	mg/unit	0.07	N/A
Mitragynine Pseudoindoxyl	Report Results	<LOQ	mg/unit	0.25	N/A
Mitraciliatine	Report Results	0.601	mg/unit	0.28	N/A
Speciociliatine	Report Results	5.11	mg/unit	0.28	N/A
Speciogynine	Report Results	3.11	mg/unit	0.28	N/A
Paynantheine	Report Results	4.60	mg/unit	0.28	N/A
Corynoxine	Report Results	<LOQ	mg/unit	0.18	N/A
Isorhynchophylline	Report Results	<LOQ	mg/unit	0.18	N/A
Mitraphylline	Report Results	<LOQ	mg/unit	1.01	N/A
Total Mitragyna Alkaloids	Report Results	40.0	mg/unit	0.28	N/A

Mitragyna Alkaloids (UHPLC-DAD)

Method Code: T102

Tested: 10JAN2025 | 1140

PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Mitragynine	Report Results	0.00714	w/w%	0.00008	N/A
7-Hydroxymitragynine	Report Results	0.00017	w/w%	0.00002	N/A
Mitragynine Pseudoindoxyl	Report Results	<LOQ	w/w%	0.00007	N/A
Mitraciliatine	Report Results	0.00017	w/w%	0.00008	N/A
Speciociliatine	Report Results	0.00140	w/w%	0.00008	N/A
Speciogynine	Report Results	0.00085	w/w%	0.00008	N/A
Paynantheine	Report Results	0.00126	w/w%	0.00008	N/A
Corynoxine	Report Results	<LOQ	w/w%	0.00005	N/A
Isorhynchophylline	Report Results	<LOQ	w/w%	0.00005	N/A
Mitraphylline	Report Results	<LOQ	w/w%	0.00005	N/A
Total Mitragyna Alkaloids	Report Results	0.01100	w/w%	0.00008	N/A

Additional Report Notes

T102 result, LOQ and unit converted from w/w% to mg/unit using a laboratory measured density of 1.025 g/mL and package specified fill volume of 355.0 mL.

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:



Position:

Laboratory Director

Department:

Management

Name:

Tyler West

Date:

10JAN2025

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Sample Image(s)



Sample Information

Name: Markava Tropical Spice
Lot Number: 111524-Markava-TS01
Description: Ready-to-drink botanical infused beverage
Condition: Good
Job ID: ISO02818
Sample ID: I07049
Received: 18NOV2024
Completed: 19NOV2024
Issued: 19NOV2024

Test Results

Mitragyna Alkaloids (UHPLC-DAD)

Method Code: T102

Tested: 19NOV2024 | 0409

PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Mitragynine	Report Results	25.0	mg/unit	0.27	N/A
7-Hydroxymitragynine	Report Results	0.139	mg/unit	0.07	N/A
Paynantheine	Report Results	3.99	mg/unit	0.27	N/A
Speciogynine	Report Results	2.80	mg/unit	0.27	N/A
Speciociliatine	Report Results	4.49	mg/unit	0.27	N/A
Total Mitragyna Alkaloids	Report Results	36.4	mg/unit	0.27	N/A

Mitragyna Alkaloids (UHPLC-DAD)

Method Code: T102

Tested: 19NOV2024 | 0409

PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Mitragynine	Report Results	0.00692	w/w%	0.00007	N/A
7-Hydroxymitragynine	Report Results	0.00004	w/w%	0.00002	N/A
Paynantheine	Report Results	0.00110	w/w%	0.00007	N/A
Speciogynine	Report Results	0.00078	w/w%	0.00007	N/A
Speciociliatine	Report Results	0.00124	w/w%	0.00007	N/A
Total Mitragyna Alkaloids	Report Results	0.0101	w/w%	0.00007	N/A

Elemental Impurities (ICP-MS)

Method Code: T301

Tested: 19NOV2024 | 1005

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	<LOQ	ug/g	0.002	PASS

Additional Report Notes

T102 result, LOQ and unit converted from w/w% to mg/unit using a laboratory measured density of 1.017 g/mL and package specified fill volume of 355.0 mL.

Revision History

rev 00 - Initial release.

Abbreviations

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Sample Image(s)



Sample Information

Name: Markava Cactus Cooler
Lot Number: 111524-Markava-CC01
Description: Ready-to-drink botanical infused beverage
Condition: Good
Job ID: ISO02818
Sample ID: I07050
Received: 18NOV2024
Completed: 19NOV2024
Issued: 19NOV2024

Test Results

Mitragyna Alkaloids (UHPLC-DAD)

Method Code: T102

Tested: 19NOV2024 | 0503

PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Mitragynine	Report Results	19.1	mg/unit	0.27	N/A
7-Hydroxymitragynine	Report Results	<LOQ	mg/unit	0.07	N/A
Paynantheine	Report Results	3.02	mg/unit	0.27	N/A
Speciogynine	Report Results	2.11	mg/unit	0.27	N/A
Speciociliatine	Report Results	3.31	mg/unit	0.27	N/A
Total Mitragyna Alkaloids	Report Results	27.5	mg/unit	0.27	N/A

Mitragyna Alkaloids (UHPLC-DAD)

Method Code: T102

Tested: 19NOV2024 | 0503

PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Mitragynine	Report Results	0.00527	w/w%	0.00007	N/A
7-Hydroxymitragynine	Report Results	<LOQ	w/w%	0.00002	N/A
Paynantheine	Report Results	0.00083	w/w%	0.00007	N/A
Speciogynine	Report Results	0.00058	w/w%	0.00007	N/A
Speciociliatine	Report Results	0.00091	w/w%	0.00007	N/A
Total Mitragyna Alkaloids	Report Results	0.0076	w/w%	0.00007	N/A

Elemental Impurities (ICP-MS)

Method Code: T301

Tested: 19NOV2024 | 1009

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	<LOQ	ug/g	0.002	PASS

Additional Report Notes

T102 result, LOQ and unit converted from w/w% to mg/unit using a laboratory measured density of 1.020 g/mL and package specified fill volume of 355.0 mL.

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rev 00 - Initial release.

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Sample Image(s)



Sample Information

Name: Markava Mango Passion
Lot Number: 111524-Markava-MP01
Description: Ready-to-drink botanical infused beverage
Condition: Good
Job ID: ISO02818
Sample ID: I07051
Received: 18NOV2024
Completed: 19NOV2024
Issued: 19NOV2024

Test Results

Mitragyna Alkaloids (UHPLC-DAD)

Method Code: T102

Tested: 19NOV2024 | 0556

PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Mitragynine	Report Results	17.5	mg/unit	0.27	N/A
7-Hydroxymitragynine	Report Results	<LOQ	mg/unit	0.07	N/A
Paynantheine	Report Results	3.28	mg/unit	0.27	N/A
Speciogynine	Report Results	2.36	mg/unit	0.27	N/A
Speciociliatine	Report Results	4.20	mg/unit	0.27	N/A
Total Mitragyna Alkaloids	Report Results	27.3	mg/unit	0.27	N/A

Mitragyna Alkaloids (UHPLC-DAD)

Method Code: T102

Tested: 19NOV2024 | 0556

PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Mitragynine	Report Results	0.00485	w/w%	0.00007	N/A
7-Hydroxymitragynine	Report Results	<LOQ	w/w%	0.00002	N/A
Paynantheine	Report Results	0.00091	w/w%	0.00007	N/A
Speciogynine	Report Results	0.00065	w/w%	0.00007	N/A
Speciociliatine	Report Results	0.00116	w/w%	0.00007	N/A
Total Mitragyna Alkaloids	Report Results	0.0076	w/w%	0.00007	N/A

Elemental Impurities (ICP-MS)

Method Code: T301

Tested: 19NOV2024 | 1014

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	<LOQ	ug/g	0.002	PASS

Additional Report Notes

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