Certificate of Analysis

Customer Information

Client: Steding and Sons Mercantile
Attention: (737) 895-2303
Address: 1501 Panther Loop #7A
Pflugerville, TX 78660

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: Nitro 100
Lot Number: SSNT0106
Description: Ready-to-drink beverage
Condition: Good
Job ID: ISO08176
Sample ID: I22842
Received: 18SEP2026
Completed: 24SEP2026
Report Date: 28SEP2026

Test Results

Residual Solvents: Class I (GC-MS) **Method Code: T201** **Tested: 24SEP2026 | 1303**

PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
1,1-Dichloroethene	NMT 8	<LOQ	ug/g	0.80	PASS
1,1,1-Trichloroethane	NMT 1500	<LOQ	ug/g	150	PASS
Tetrachloromethane	NMT 4	<LOQ	ug/g	0.40	PASS
Benzene	NMT 2	<LOQ	ug/g	0.20	PASS
1,2-Dichloroethane	NMT 5	<LOQ	ug/g	0.50	PASS

Residual Solvents: Class II (GC-MS) **Method Code: T201** **Tested: 24SEP2026 | 1303**

PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Methanol	NMT 3000	<LOQ	ug/g	75	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	46.75	PASS
1,2-Dichloroethene, (Z)	NMT 1870	<LOQ	ug/g	46.75	PASS
Tetrahydrofuran	NMT 720	<LOQ	ug/g	18	PASS
Cyclohexane	NMT 3880	<LOQ	ug/g	97	PASS
Methylcyclohexane	NMT 1180	<LOQ	ug/g	29.5	PASS
1,4-Dioxane	NMT 380	<LOQ	ug/g	38	PASS
Toluene	NMT 890	<LOQ	ug/g	22.25	PASS
Chlorobenzene	NMT 360	<LOQ	ug/g	9	PASS
Ethylbenzene	NMT 2170	<LOQ	ug/g	54.25	PASS
o/p-Xylene	NMT 2170	<LOQ	ug/g	54.25	PASS
m-Xylene	NMT 2170	<LOQ	ug/g	54.25	PASS

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PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Isopropylbenzene	NMT 70	<LOQ	ug/g	1.75	PASS
Hexane	NMT 290	<LOQ	ug/g	7.25	PASS
Nitromethane	NMT 50	<LOQ	ug/g	1.25	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	PASS
Pyridine	NMT 200	<LOQ	ug/g	5	PASS
2-Hexanone	NMT 50	<LOQ	ug/g	5	PASS
Tetralin	NMT 100	<LOQ	ug/g	2.5	PASS
Total Xylenes	NMT 2170	<LOQ	ug/g	54	PASS

Residual Solvents: Class III (GC-MS) **Method Code: T201** **Tested: 24SEP2026 | 1303**

PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Pentane	NMT 5000	<LOQ	ug/g	125	PASS
Ethanol	NMT 5000	<LOQ	ug/g	125	PASS
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
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
Dimethylsulfoxide	NMT 5000	<LOQ	ug/g	125	PASS
Anisole	NMT 5000	<LOQ	ug/g	125	PASS

Mitragyna Alkaloids (UHPLC-DAD) **Method Code: T102** **Tested: 24SEP2026 | 1943**

PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	MDL
Mitragynine	Report Results	107	mg/unit	0.88	0.26
7-Hydroxymitragynine	Report Results	<LOQ (0.331)	mg/unit	0.88	0.26
Mitraciliatine	Report Results	ND	mg/unit	0.88	0.26
Speciociliatine	Report Results	1.05	mg/unit	0.88	0.26

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PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	MDL
Speciogynine	Report Results	<LOQ (0.567)	mg/unit	0.88	0.26
Paynantheine	Report Results	1.21	mg/unit	0.88	0.26
Coryantheidine	Report Results	3.57	mg/unit	0.88	0.26
Corynoxine	Report Results	ND	mg/unit	0.88	0.26
Isorhynchophylline	Report Results	ND	mg/unit	0.88	0.26
Mitraphylline	Report Results	ND	mg/unit	0.88	0.26
Component Sum	Report Results	113	mg/unit	0.88	0.26

Mitragyna Alkaloids (UHPLC-DAD) **Method Code: T102** **Tested: 24SEP2026 | 1943**

PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	MDL
Mitragynine	Report Results	0.299	mg/g	0.0025	0.00074
7-Hydroxymitragynine	Report Results	<LOQ (0.000930)	mg/g	0.0025	0.00074
Mitraciliatine	Report Results	ND	mg/g	0.0025	0.00074
Speciociliatine	Report Results	0.00295	mg/g	0.0025	0.00074
Speciogynine	Report Results	<LOQ (0.00160)	mg/g	0.0025	0.00074
Paynantheine	Report Results	0.00341	mg/g	0.0025	0.00074
Coryantheidine	Report Results	0.0100	mg/g	0.0025	0.00074
Corynoxine	Report Results	ND	mg/g	0.0025	0.00074
Isorhynchophylline	Report Results	ND	mg/g	0.0025	0.00074
Mitraphylline	Report Results	ND	mg/g	0.0025	0.00074
Component Sum	Report Results	0.318	mg/g	0.0025	0.00074

Elemental Impurities (ICP-MS) **Method Code: T301** **Tested: 21SEP2026 | 1711**

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

Unit Weight Analysis (Gravimetric) **Method Code: T503** **Tested: 23SEP2026 | 2110**

PARAMETER	SPECIFICATION	RESULT	UNIT	RANGE	NOTES
Density	Report Results	1.002	g/mL	0.5-1.5	N/A

Microbial Examination **Method Code: T005** **Tested: 23SEP2026 | 1300**

PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Total Aerobic Plate Count	NMT 10,000 CFU/g	<LOQ	CFU/g	10 CFU/g	PASS
Total Yeast and Mold	NMT 1,000 CFU/g	<LOQ	CFU/g	10 CFU/g	PASS
Total Coliforms	NMT 100 CFU/g	<LOQ	CFU/g	10 CFU/g	PASS
Escherichia coli	Not Detected in 10 g	Not Detected	N/A	1 CFU/10g	PASS
Salmonella spp.	Not Detected in 10 g	Not Detected	N/A	1 CFU/10g	PASS

Mitragynine Derivatives [UHPLC-MS] **Method Code: T191** **Tested: 24SEP2026 | 2133**

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PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	MDL
7-hydroxymitragynine	Report Results	<LOQ (0.136)	ug/g	0.25	0.082
9-hydroxycorynantheidine	Report Results	<LOQ (0.0886)	ug/g	0.25	0.082
Mitragynine Pseudoindoxyl	Report Results	ND	ug/g	0.25	0.082
7-acetoxymitragynine	Report Results	ND	ug/g	0.25	0.082
Dihydro-7-hydroxymitragynine (MGM-15)	Report Results	ND	ug/g	0.25	0.082
10-fluoro-dihydro-7-hydroxymitragynine (MGM-16)	Report Results	ND	ug/g	0.25	0.082
Component Sum	Report Results	<LOQ (0.225)	ug/g	0.25	0.082

7-Hydroxymitragynine Limit (0.04%) **Method Code: 813** **Tested: 24SEP2026 | 2133**

PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
7-Hydroxymitragynine	NMT 400 PPM	<41.67	ppm	41.67	PASS

Loss on Drying **Method Code: T505** **Tested: 22SEP2026 | 1430**

PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Loss on Drying	Report Results	99.4	%	0.1	N/A

Additional Report Notes

T102E result, LOQ and unit converted from mg/g to mg/unit using a laboratory measured density and package specified fill volume. T813 results are reported on a dry-weight basis (DWB). Reported values converted from T191 results using the laboratory-measured loss on drying by T505 for each sample:
DWB w/w% = (as-received w/w%) ÷ (1 − moisture%/100).

Revision History

Report ID: 03ee3dbd-9897-5947-a2af-3aea690ba53a
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: 28SEP2026

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