

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
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Sample Image(s)



Sample Information

Name: DOP250423GS
Lot Number: SG 151927
Description: Finely ground plant material
Condition: Good
Job ID: ISO03842
Sample ID: I09987
Received: 23APR2025
Completed: 24APR2025
Issued: 28APR2025

Test Results

Mitragyna Alkaloids (UHPLC-DAD)Method Code: T102Tested: 24APR2025 | 1122

PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Mitragynine	Report Results	1.47	w/w%	0.00342	N/A
7-Hydroxymitragynine	Report Results	0.00530	w/w%	0.00342	N/A
Paynantheine	Report Results	0.276	w/w%	0.00342	N/A
Speciogynine	Report Results	0.211	w/w%	0.00342	N/A
Speciociliatine	Report Results	0.401	w/w%	0.00342	N/A
Total Mitragyna Alkaloids	Report Results	2.36	w/w%	0.00342	N/A

Elemental Impurities (ICP-MS)Method Code: T301Tested: 24APR2025 | 1345

PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Arsenic	NMT 2.00	0.329	ug/g	0.006	PASS
Cadmium	NMT 0.50	0.014	ug/g	0.002	PASS
Mercury	NMT 0.20	0.015	ug/g	0.002	PASS
Lead	NMT 5.00	0.440	ug/g	0.002	PASS

Microbiological ExaminationMethod Code: T005Tested: 23APR2025 | 1307

PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Total Aerobic Plate Count	10,000,000 CFU / g	380	CFU/g	20 CFU / g	PASS
Total Yeast and Mold	100,000 CFU / g	380	CFU/g	20 CFU / g	PASS
Total Coliforms	10,000 CFU / g	Not Detected	CFU/g	20 CFU / g	PASS
Escherichia coli	Not Detected in 10 g	Not Detected	N/A	1 CFU / 10 g	PASS
Salmonella	Not Detected in 25 g	Not Detected	N/A	1 CFU / 25 g	PASS

Pesticides (GC-MS/MS:1/5)Method Code: T401Tested: 24APR2025 | 2219

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PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Acephate	NMT 0.1	ND	mg/Kg	0.0292	PASS
Azinphos-ethyl	NMT 0.1	ND	mg/Kg	0.0292	PASS
Azinphos-methyl	NMT 1	ND	mg/Kg	0.0292	PASS
Bromophos-ethyl	NMT 0.05	ND	mg/Kg	0.0292	PASS
Bromophos-methyl	NMT 0.05	ND	mg/Kg	0.0292	PASS
Chlorfenvinphos	NMT 0.5	ND	mg/Kg	0.0292	PASS
Deltamethrin	NMT 0.5	ND	mg/Kg	0.0292	PASS
Diazinon	NMT 0.5	ND	mg/Kg	0.0292	PASS
Dichlofluanid	NMT 0.1	ND	mg/Kg	0.0292	PASS
Dichlorvos	NMT 1	ND	mg/Kg	0.0584	PASS
Dimethoate (and Omethoate, sum)	NMT 0.1	ND	mg/Kg	0.0292	PASS
Omethaote	Report Results	ND	mg/Kg	0.0292	N/A
Dithiocarbamates (sum, as CS2)	NMT 2	ND	mg/Kg	0.2918	PASS
Dithiocarbamate, manganese	Report Results	ND	mg/Kg	0.1459	N/A
Dithiocarbamate, zinc	Report Results	ND	mg/Kg	0.1459	N/A
Ethion	NMT 2	ND	mg/Kg	0.0292	PASS
Etrimphos	NMT 0.05	ND	mg/Kg	0.0292	PASS
Fenchlorphos	NMT 0.1	ND	mg/Kg	0.0584	PASS
Fenchlorphos oxon	Report Results	ND	mg/Kg	0.0292	N/A
Fenitrothion	NMT 0.5	ND	mg/Kg	0.0292	PASS
Fenpropathrin	NMT 0.03	ND	mg/Kg	0.0292	PASS

Pesticides (GC-MS/MS:2/5)

Method Code: T401

Tested: 24APR2025 | 2219

PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Fensulfothions (sum)	NMT 0.05	ND	mg/Kg	0.0292	PASS
Fensulfothion-oxon	Report Results	ND	mg/Kg	0.0292	N/A
Fensulfothion-oxonsulfone	Report Results	ND	mg/Kg	0.0292	N/A
Fensulfothion-sulfone	Report Results	ND	mg/Kg	0.0292	N/A
Fenthions (sum)	NMT 0.05	ND	mg/Kg	0.0292	PASS
Fenthion oxon	Report Results	ND	mg/Kg	0.0584	N/A
Fenthion oxonsulfone	Report Results	ND	mg/Kg	0.0584	N/A
Fenthion oxonsulfoxide	Report Results	ND	mg/Kg	0.0584	N/A
Fenthion sulfone	Report Results	ND	mg/Kg	0.0584	N/A
Fenthion sulfoxide	Report Results	ND	mg/Kg	0.0584	N/A
Flucythrinate	NMT 0.05	ND	mg/Kg	0.0292	PASS
Fluvalinate	NMT 0.05	ND	mg/Kg	0.0292	PASS
Fonophos	NMT 0.05	ND	mg/Kg	0.0292	PASS
Malathion (and oxon, sum)	NMT 1	ND	mg/Kg	0.0584	PASS
Malathion oxon	Report Results	ND	mg/Kg	0.0292	N/A
Mecarbam	NMT 0.05	ND	mg/Kg	0.0292	PASS
Methacriphos	NMT 0.05	ND	mg/Kg	0.0292	PASS
Methamidophos	NMT 0.05	ND	mg/Kg	0.0292	PASS
Methadathion	NMT 0.2	ND	mg/Kg	0.0292	PASS
Monocrotophos	NMT 0.1	ND	mg/Kg	0.0292	PASS

Pesticides (GC-MS/MS:3/5)

Method Code: T401

Tested: 24APR2025 | 2219

PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Parathion-ethyl (and oxon, sum)	NMT 0.5	ND	mg/Kg	0.0584	PASS
Paraoxon ethyl	Report Results	ND	mg/Kg	0.0292	N/A
Parathion-methyl (and oxon, sum)	NMT 0.2	ND	mg/Kg	0.0584	PASS
Paraoxon methyl	Report Results	ND	mg/Kg	0.0292	N/A
Pendimethalin	NMT 0.1	ND	mg/Kg	0.0292	PASS
Phosalone	NMT 0.1	ND	mg/Kg	0.0292	PASS
Pirimiphos ethyl	NMT 0.05	ND	mg/Kg	0.0292	PASS
Pirimphos methyl (and N-desethyl-, sum)	NMT 4	ND	mg/Kg	0.0875	PASS
N-desethylpirimiphos methyl	Report Results	ND	mg/Kg	0.0584	N/A
Procymidone	NMT 0.1	ND	mg/Kg	0.0292	PASS
Profenofos	NMT 0.1	ND	mg/Kg	0.0292	PASS
Prothiophos	NMT 0.05	ND	mg/Kg	0.0292	PASS
Pyrethrum (sum of following six)	NMT 3	ND	mg/Kg	0.1459	PASS
Cinerin I	Report Results	ND	mg/Kg	0.1459	N/A
Cinerin II	Report Results	ND	mg/Kg	0.1459	N/A
Jasmoline I	Report Results	ND	mg/Kg	0.1459	N/A
Jasmoline II	Report Results	ND	mg/Kg	0.1459	N/A
Pyrethrin I	Report Results	ND	mg/Kg	0.1459	N/A
Pyrethrin II	Report Results	ND	mg/Kg	0.1459	N/A
Quinalphos	NMT 0.05	ND	mg/Kg	0.0292	PASS
Tetradifon	NMT 0.3	ND	mg/Kg	0.0292	PASS
Vinclozolin	NMT 0.4	ND	mg/Kg	0.0292	PASS

Pesticides (GC-MS/MS:4/5)

Method Code: T401

Tested: 24APR2025 | 2219

PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Aldrin (and Dieldrin, sum)	NMT 0.05	ND	mg/Kg	0.0292	PASS
Dieldrin	Report Results	ND	mg/Kg	0.0292	N/A
Alachlor	NMT 0.05	ND	mg/Kg	0.0292	PASS
Bromopropylate	NMT 3	ND	mg/Kg	0.0292	PASS
Chlordanes (sum)	NMT 0.05	ND	mg/Kg	0.0292	PASS
cis-Chlordane	Report Results	ND	mg/Kg	0.0292	N/A
trans-Chlordane	Report Results	ND	mg/Kg	0.0292	N/A
oxy-Chlordane	Report Results	ND	mg/Kg	0.0584	N/A
Chlorpyrifos-ethyl	NMT 0.2	ND	mg/Kg	0.0292	PASS
Chlorpyrifos-methyl	NMT 0.1	ND	mg/Kg	0.0292	PASS
Chlorthal-dimethyl	NMT 0.01	ND	mg/Kg	0.01	PASS
Cyfluthrin	NMT 0.1	ND	mg/Kg	0.0584	PASS
lambda-Cyhalothrin	NMT 1	ND	mg/Kg	0.0292	PASS
Cypermethrins	NMT 1	ND	mg/Kg	0.0584	PASS
DDT (sum of DDT, DDE, DDD)	NMT 1	ND	mg/Kg	0.0292	PASS
o,p-DDT	Report Results	ND	mg/Kg	0.0292	N/A
p,p-DDT	Report Results	ND	mg/Kg	0.0292	N/A
o,p-DDE	Report Results	ND	mg/Kg	0.0292	N/A
p,p-DDE	Report Results	ND	mg/Kg	0.0292	N/A
o,p-DDD	Report Results	ND	mg/Kg	0.0292	N/A
p,p-DDD	Report Results	ND	mg/Kg	0.0292	N/A
Dicofol	NMT 0.5	ND	mg/Kg	0.0292	PASS

Pesticides (GC-MS/MS:5/5)

Method Code: T401

Tested: 24APR2025 | 2219

PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Endosulfans	NMT 3	ND	mg/Kg	0.0292	PASS
Endosulfan I	Report Results	ND	mg/Kg	0.0292	N/A
Endosulfan II	Report Results	ND	mg/Kg	0.0292	N/A
Endosulfan sulfate	Report Results	ND	mg/Kg	0.0292	N/A
Endrin	NMT 0.05	ND	mg/Kg	0.0292	PASS
Fenvalderate (and esfen-, sum)	NMT 1.5	ND	mg/Kg	0.0584	PASS
Esfenvalerate	Report Results	ND	mg/Kg	0.0584	N/A
Heptachlor (and epoxide, sum)	NMT 0.05	ND	mg/Kg	0.0292	PASS
Heptachlor epoxide (cis/trans)	Report Results	ND	mg/Kg	0.0292	N/A
Hexachlorobenzene	NMT 0.1	ND	mg/Kg	0.0292	PASS
Hexachlorohexanes (sum)	NMT 0.3	ND	mg/Kg	0.0292	PASS
alpha-Hexachlorocyclohexane	Report Results	ND	mg/Kg	0.0292	N/A
beta-Hexachlorocyclohexane	Report Results	ND	mg/Kg	0.0292	N/A
delta-Hexachlorocyclohexane	Report Results	ND	mg/Kg	0.0292	N/A
Lindane	NMT 0.6	ND	mg/Kg	0.0292	PASS
Methoxychlor	NMT 0.05	ND	mg/Kg	0.0292	PASS
Mirex	NMT 0.01	ND	mg/Kg	0.01	PASS
Pentachloroanisole	NMT 0.01	ND	mg/Kg	0.01	PASS
Permethrins (sum)	NMT 1	ND	mg/Kg	0.0292	PASS
cis-Permethrin	Report Results	ND	mg/Kg	0.0292	N/A
trans-Permethin	Report Results	ND	mg/Kg	0.0292	N/A
Piperonyl butoxide	NMT 3	ND	mg/Kg	0.0292	PASS
Quintozene (sum of following two)	NMT 1	ND	mg/Kg	0.2626	PASS
Pentachloroaniline	Report Results	ND	mg/Kg	0.0584	N/A
Methyl pentachlorophenyl sulfide	Report Results	ND	mg/Kg	0.1459	N/A
Tecnazene	NMT 0.05	ND	mg/Kg	0.0292	PASS
S-421	NMT 0.02	ND	mg/Kg	0.01	PASS

Additional Report Notes

T401 performed by a registered outsourcing facility.

Revision History

- rev 00 - Initial release.
- rev 01 - Added T401 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:	28APR2025