

Certificate of Analysis



CUSTOMER INFORMATION

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

TESTING FACILITY

Cora Science, LLC
 8000 Anderson Square, STE 113
 Austin, Texas 78757
 (512) 856-5007
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SAMPLE IMAGE(S)



JOB / SAMPLE INFORMATION

Received: 13 MAR 2024
 Condition: Good
 Job ID: ISO01828
 Sample ID: I03941
 Sample Name: Texas Red
 Lot TR151926
 Description: Finely ground plant material
 Completed: 19 MAR 2024
 Issued: 19 MAR 2024

TEST RESULT(S)

Mitragyna Alkaloids (UHPLC-DAD)		Method Code:	T102	Tested: 16MAR2024 1806	
PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Mitragynine	Report Results	1.25	w/w%	0.011	N/A
7-Hydroxymitragynine	Report Results	0.006	w/w%	0.003	N/A
Paynantheine	Report Results	0.251	w/w%	0.011	N/A
Speciogynine	Report Results	0.197	w/w%	0.011	N/A
Speciociliatine	Report Results	0.347	w/w%	0.011	N/A
Total Mitragyna Alkaloids	Report Results	2.05	w/w%	0.011	N/A

Elemental Impurities (ICP-MS)		Method Code:	T301	Tested: 17MAR2024 1913	
PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Arsenic	NMT 10	<LOQ	ug/day	0.25	PASS
Cadmium	NMT 4.1	0.064	ug/day	0.050	PASS
Lead	NMT 6.0	6.6	ug/day	0.050	FAIL
Mercury	NMT 2.0	0.18	ug/day	0.050	PASS

Microbiological Examination		Method Code:	T005	Tested: 17MAR2024 0951	
PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Total Aerobic Plate Count	10,000,000 CFU/gram	930	CFU/gram	20 CFU/gram	PASS
Total Yeast & Mold	100,000 CFU/gram	Not Detected	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

Pesticides (LC-MS/MS and GC-MS)		Method Code:	T401	Tested:	17MAR2024 2021
PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Acephate	NMT 0.1	ND	ug/g	0.01	PASS
Aldrin	NMT 0.05	ND	ug/g	0.02	PASS
Dieldrin	NMT 0.05	ND	ug/g	0.01	PASS
Alachlor	NMT 0.05	ND	ug/g	0.01	PASS
Azinphos-ethyl	NMT 0.1	ND	ug/g	0.01	PASS
Azinphos-methyl	NMT 1.0	ND	ug/g	0.01	PASS
Bromophos-ethyl	NMT 0.05	ND	ug/g	0.01	PASS
Bromophos-methyl	NMT 0.05	ND	ug/g	0.01	PASS
Bromopropylate	NMT 3	ND	ug/g	0.01	PASS
Chlordanes	NMT 0.05	ND	ug/g	0.04	PASS
cis-Chlordane	NMT 0.05	ND	ug/g	0.01	PASS
trans-Chlordane	NMT 0.05	ND	ug/g	0.01	PASS
oxy-Chlordane	NMT 0.05	ND	ug/g	0.02	PASS
Chlorfenvinphos	NMT 0.5	ND	ug/g	0.01	PASS
Chlorpyrifos-ethyl	NMT 0.2	ND	ug/g	0.01	PASS
Chlorpyrifos-methyl	NMT 0.1	ND	ug/g	0.01	PASS
Chlorthal-dimethyl	NMT 0.01	ND	ug/g	0.01	PASS
Cyfluthrin	NMT 0.1	ND	ug/g	0.02	PASS
lambda-Cyhalothrin	NMT 1	ND	ug/g	0.01	PASS
Cypermethrins	NMT 1	ND	ug/g	0.02	PASS
DDT	NMT 1	ND	ug/g	0.06	PASS
o,p-DDT	NMT 1	ND	ug/g	0.01	PASS
p,p-DDT	NMT 1	ND	ug/g	0.01	PASS
o,p-DDE	NMT 1	ND	ug/g	0.01	PASS
p,p-DDE	NMT 1	ND	ug/g	0.01	PASS
o,p-DDD	NMT 1	ND	ug/g	0.01	PASS
p,p-DDD	NMT 1	ND	ug/g	0.01	PASS
Deltamethrin	NMT 0.5	ND	ug/g	0.01	PASS
Diazinon	NMT 0.5	ND	ug/g	0.01	PASS
Dichlofluanid	NMT 0.1	ND	ug/g	0.01	PASS
Dichlorvos	NMT 1	ND	ug/g	0.02	PASS
Dicofol	NMT 0.5	ND	ug/g	0.01	PASS
Dimethoate	NMT 0.1	ND	ug/g	0.01	PASS
Omethaote	NMT 0.1	ND	ug/g	0.01	PASS
Dithiocarbamates as CS2	NMT 2	ND	ug/g	0.1	PASS
Dithiocarbamate, manganese	NMT 2	ND	ug/g	0.05	PASS
Dithiocarbamate, zinc	NMT 2	ND	ug/g	0.05	PASS
Endosulfans	NMT 3	ND	ug/g	0.03	PASS
Endosulfan I	NMT 3	ND	ug/g	0.01	PASS

Pesticides (LC-MS/MS and GC-MS)		Method Code:	T401	Tested:	17MAR2024 2021
PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Endosulfan II	NMT 3	ND	ug/g	0.01	PASS
Endosulfan sulfate	NMT 3	ND	ug/g	0.01	PASS
Endrin	NMT 0.05	ND	ug/g	0.01	PASS
Ethion	NMT 2	ND	ug/g	0.01	PASS
Etrimphos	NMT 0.05	ND	ug/g	0.01	PASS
Fenchlorphos	NMT 0.1	ND	ug/g	0.02	PASS
Fenchlorphos oxon	NMT 0.1	ND	ug/g	0.01	PASS
Fenitrothion	NMT 0.5	ND	ug/g	0.01	PASS
Fenpropathrin	NMT 0.03	ND	ug/g	0.01	PASS
Fensulfothion	NMT 0.05	ND	ug/g	0.04	PASS
Fensulfothion-oxon	NMT 0.05	ND	ug/g	0.01	PASS
Fensulfothion-oxonsulfone	NMT 0.05	ND	ug/g	0.01	PASS
Fensulfothion-sulfone	NMT 0.05	ND	ug/g	0.01	PASS
Fenthion	NMT 0.05	ND	ug/g	0.05	PASS
Fenthion oxon	NMT 0.05	ND	ug/g	0.01	PASS
Fenthion oxonsulfone	NMT 0.05	ND	ug/g	0.01	PASS
Fenthion oxonsulfoxide	NMT 0.05	ND	ug/g	0.01	PASS
Fenthion sulfone	NMT 0.05	ND	ug/g	0.01	PASS
Fenthion sulfoxide	NMT 0.05	ND	ug/g	0.01	PASS
Fenvalerate	NMT 1.5	ND	ug/g	0.04	PASS
Esfenvalerate	NMT 0.05	ND	ug/g	0.02	PASS
Flucythrinate	NMT 0.05	ND	ug/g	0.01	PASS
Fluvalinate	NMT 0.05	ND	ug/g	0.01	PASS
Fonophos	NMT 0.05	ND	ug/g	0.01	PASS
Heptachlor	NMT 0.05	ND	ug/g	0.02	PASS
Heptachlor epoxide (cis/trans)	NMT 0.05	ND	ug/g	0.01	PASS
Hexachlorobenzene	NMT 0.1	ND	ug/g	0.01	PASS
Hexachlorohexanes	NMT 0.3	ND	ug/g	0.03	PASS
alpha-Hexachlorocyclohexane	NMT 0.3	ND	ug/g	0.01	PASS
beta-Hexachlorocyclohexane	NMT 0.3	ND	ug/g	0.01	PASS
delta-Hexachlorocyclohexane	NMT 0.3	ND	ug/g	0.01	PASS
Lindan	NMT 0.6	ND	ug/g	0.01	PASS
Malathion	NMT 1	ND	ug/g	0.02	PASS
Malathion oxon	NMT 1	ND	ug/g	0.01	PASS
Mecarbam	NMT 0.05	ND	ug/g	0.01	PASS
Methacriphos	NMT 0.05	ND	ug/g	0.01	PASS
Methamidophos	NMT 0.05	ND	ug/g	0.01	PASS
Methadathion	NMT 0.2	ND	ug/g	0.01	PASS
Methoxychlor	NMT 0.05	ND	ug/g	0.01	PASS

Pesticides (LC-MS/MS and GC-MS)		Method Code:	T401	Tested:	17MAR2024 2021
PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Mirex	NMT 0.01	ND	ug/g	0.01	PASS
Monocrotophos	NMT 0.1	ND	ug/g	0.01	PASS
Parathion-ethyl	NMT 0.5	ND	ug/g	0.02	PASS
Paraoxon ethyl	NMT 0.5	ND	ug/g	0.01	PASS
Parathion-methyl	NMT 0.2	ND	ug/g	0.02	PASS
Paraoxon methyl	NMT 0.2	ND	ug/g	0.01	PASS
Pendimethalin	NMT 0.1	ND	ug/g	0.01	PASS
Pentachloroanisole	NMT 0.01	ND	ug/g	0.01	PASS
Permethrins	NMT 1	ND	ug/g	0.02	PASS
cis-Permethrin	NMT 1	ND	ug/g	0.01	PASS
trans-Permethin	NMT 1	ND	ug/g	0.01	PASS
Phosalone	NMT 0.1	ND	ug/g	0.01	PASS
Piperonyl butoxide	NMT 3	ND	ug/g	0.01	PASS
Pirimiphos ethyl	NMT 0.05	ND	ug/g	0.01	PASS
Pirimiphos methyl	NMT 4	ND	ug/g	0.03	PASS
N-desethylpirimiphos methyl	NMT 4	ND	ug/g	0.02	PASS
Procymidone	NMT 0.1	ND	ug/g	0.01	PASS
Profenofos	NMT 0.1	ND	ug/g	0.01	PASS
Prothiophos	NMT 0.05	ND	ug/g	0.01	PASS
Pyrethrum	NMT 3	ND	ug/g	0.3	PASS
Cinerin I	NMT 3	ND	ug/g	0.05	PASS
Cinerin II	NMT 3	ND	ug/g	0.05	PASS
Jasmoline I	NMT 3	ND	ug/g	0.05	PASS
Jasmoline II	NMT 3	ND	ug/g	0.05	PASS
Pyrethrin I	NMT 3	ND	ug/g	0.05	PASS
Pyrethrin II	NMT 3	ND	ug/g	0.05	PASS
Quinalphos	NMT 0.05	ND	ug/g	0.01	PASS
Quintozene	NMT 1	ND	ug/g	0.09	PASS
Pentachloroaniline	NMT 1	ND	ug/g	0.02	PASS
Methyl pentachlorophenyl sulfide	NMT 1	ND	ug/g	0.05	PASS
Tecnazene	NMT 0.05	ND	ug/g	0.01	PASS
S-421	NMT 0.02	ND	ug/g	0.01	PASS
Tetradifon	NMT 0.3	ND	ug/g	0.01	PASS
Vinclozolin	NMT 0.4	ND	ug/g	0.01	PASS

ADDITIONAL REPORT NOTES

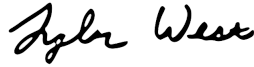
T301 and T401 performed by a registered outsourcing facility. T301 result, unit, and LOQ converted from ug/g to ug/day using a maximum permitted daily exposure of 5.0 g/day.

REVISION HISTORY

rev00 Initial release.

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

Signature:



Department: Management

Name:

Tyler West, Laboratory Director

Date:

19 MAR 2024

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