

# Certificate of Analysis



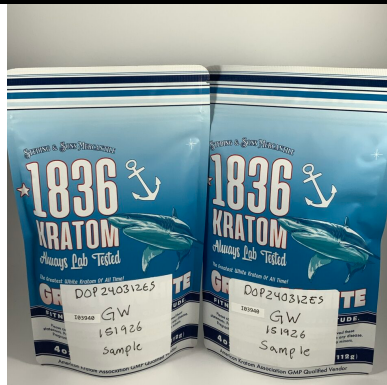
## CUSTOMER INFORMATION

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  
 info@corascience.com

## SAMPLE IMAGE(S)



## JOB / SAMPLE INFORMATION

Received: 13 MAR 2024  
 Condition: Good  
 Job ID: ISO01828  
 Sample ID: I03940  
 Sample Name: Great White  
 Lot GW151926  
 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   1710	
PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Mitragynine	Report Results	1.60	w/w%	0.011	N/A
7-Hydroxymitragynine	Report Results	0.005	w/w%	0.003	N/A
Paynantheine	Report Results	0.308	w/w%	0.011	N/A
Speciogynine	Report Results	0.237	w/w%	0.011	N/A
Speciociliatine	Report Results	0.390	w/w%	0.011	N/A
Total Mitragyna Alkaloids	Report Results	2.54	w/w%	0.011	N/A

Elemental Impurities (ICP-MS)		Method Code:	T301	Tested: 17MAR2024   1909	
PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Arsenic	NMT 10	0.71	ug/day	0.23	PASS
Cadmium	NMT 4.1	0.17	ug/day	0.046	PASS
Lead	NMT 6.0	0.67	ug/day	0.046	PASS
Mercury	NMT 2.0	0.15	ug/day	0.046	PASS

Microbiological Examination		Method Code:	T005	Tested: 17MAR2024   0951	
PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Total Aerobic Plate Count	10,000,000 CFU/gram	200	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   1942
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   1942
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   1942
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.

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

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Signature:



Department:

Management

Name:

Tyler West, Laboratory Director

Date:

19 MAR 2024

ABBREVIATIONS
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<p><b>ID:</b> identification, <b>N/A:</b> not applicable, <b>LOQ:</b> limit of quantitation, <b>CFU:</b> colony forming units, <b>w/w%:</b> weight by weight percent, <b>mg:</b> milligrams, <b>g:</b> grams, <b>ug:</b> micrograms, <b>mL:</b> milliliters, <b>ND:</b> not detected, <b>&lt;LOQ:</b> below limit of quantitation, <b>NMT:</b> no more than, <b>NLT:</b> no less than, <b>UHPLC:</b> ultra-high performance liquid chromatography, <b>GC:</b> gas chromatography, <b>DAD:</b> diode array detection/detector, <b>MS:</b> mass spectroscopy/spectrometer, <b>ICP:</b> inductively coupled plasma, <b>ISO:</b> International Organization for Standardization, <b>USP:</b> United States Pharmacopeia</p>
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