



Certificate of Analysis

Customer Information		Testing Facility	
Client:	Kats Botanicals	Lab:	Cora Science, LLC
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Sample Image(s)	Sample Information
	Name: Lot Number: Description: Condition: Job ID: Sample ID: Received: Completed: Report Date: KB-TPS 1036 Finely ground plant material Good ISO07662 I21482 17JUL2026 23JUL2026 23JUL2026

Test Results

Microbial Examination		Method Code: T005		Tested: 22JUL2026 1248	
PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Total Aerobic Plate Count	NMT 10,000,000 CFU/g	270	CFU/g	20 CFU/g	PASS
Total Yeast and Mold	NMT 100,000 CFU/g	120	CFU/g	20 CFU/g	PASS
Total Coliforms	NMT 10,000 CFU/g	<LOQ	CFU/g	20 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

Mitragyna Alkaloids (UHPLC-DAD)		Method Code: T102		Tested: 23JUL2026 0512	
PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Mitragynine	Report Results	1.47	w/w%	0.0052	N/A
7-Hydroxymitragynine	Report Results	0.00314	w/w%	0.00069	N/A
Mitragynine Pseudoindoxyl	Report Results	<LOQ	w/w%	0.0052	N/A
Mitraciliatine	Report Results	0.0654	w/w%	0.0052	N/A
Speciociliatine	Report Results	0.489	w/w%	0.0052	N/A
Speciogynine	Report Results	0.212	w/w%	0.0052	N/A
Paynantheine	Report Results	0.269	w/w%	0.0052	N/A
Coryantheidine	Report Results	0.0275	w/w%	0.0052	N/A
Corynoxine	Report Results	0.0136	w/w%	0.0052	N/A
Isorhynchophylline	Report Results	<LOQ	w/w%	0.0052	N/A
Mitraphylline	Report Results	<LOQ	w/w%	0.0052	N/A
Total Mitragyna Alkaloids	Report Results	2.55	w/w%	0.0052	N/A

Elemental Impurities (ICP-MS)	Method Code: T301	Tested: 21JUL2026 1102
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PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Arsenic	NMT 2.00	0.359	ug/g	0.006	PASS
Cadmium	NMT 0.50	0.019	ug/g	0.002	PASS
Mercury	NMT 0.20	0.027	ug/g	0.002	PASS
Lead	NMT 5.00	0.900	ug/g	0.002	PASS

Pesticides (GC-MS/MS)		Method Code: T401		Tested: 22JUL2026 1244		
PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES	
Acephate	NMT 0.1	ND	mg/Kg	0.01	PASS	
Azinphos-ethyl	NMT 0.1	ND	mg/Kg	0.01	PASS	
Azinphos-methyl	NMT 1	ND	mg/Kg	0.01	PASS	
Bromophos-ethyl	NMT 0.05	ND	mg/Kg	0.01	PASS	
Bromophos-methyl	NMT 0.05	ND	mg/Kg	0.01	PASS	
Chlorfenvinphos	NMT 0.5	ND	mg/Kg	0.01	PASS	
Deltamethrin	NMT 0.5	ND	mg/Kg	0.01	PASS	
Diazinon	NMT 0.5	ND	mg/Kg	0.01	PASS	
Dichlofluanid	NMT 0.1	ND	mg/Kg	0.01	PASS	
Dichlorvos	NMT 1	ND	mg/Kg	0.02	PASS	
Dimethoate (and Omethoate, sum)	NMT 0.1	ND	mg/Kg	0.01	PASS	
Omethaote	Report Results	ND	mg/Kg	0.01	N/A	
Dithiocarbamates (sum, as CS2)	NMT 2	ND	mg/Kg	0.10	PASS	
Dithiocarbamate, manganese	Report Results	ND	mg/Kg	0.05	N/A	
Dithiocarbamate, zinc	Report Results	ND	mg/Kg	0.05	N/A	
Ethion	NMT 2	ND	mg/Kg	0.01	PASS	
Etrimphos	NMT 0.05	ND	mg/Kg	0.01	PASS	
Fenchlorphos	NMT 0.1	ND	mg/Kg	0.02	PASS	
Fenchlorphos oxon	Report Results	ND	mg/Kg	0.01	N/A	
Fenitrothion	NMT 0.5	ND	mg/Kg	0.01	PASS	
Fenpropathrin	NMT 0.03	ND	mg/Kg	0.01	PASS	
Fensulfothions (sum)	NMT 0.05	ND	mg/Kg	0.04	PASS	
Fensulfothion-oxon	Report Results	ND	mg/Kg	0.01	N/A	
Fensulfothion-oxonsulfone	Report Results	ND	mg/Kg	0.01	N/A	
Fensulfothion-sulfone	Report Results	ND	mg/Kg	0.01	N/A	
Fenthions (sum)	NMT 0.05	ND	mg/Kg	0.02	PASS	
Fenthion oxon	Report Results	ND	mg/Kg	0.02	N/A	
Fenthion oxonsulfone	Report Results	ND	mg/Kg	0.02	N/A	
Fenthion oxonsulfoxide	Report Results	ND	mg/Kg	0.02	N/A	
Fenthion sulfone	Report Results	ND	mg/Kg	0.02	N/A	
Fenthion sulfoxide	Report Results	ND	mg/Kg	0.02	N/A	
Flucythrinate	NMT 0.05	ND	mg/Kg	0.01	PASS	
Fluvalinate	NMT 0.05	ND	mg/Kg	0.01	PASS	
Fonophos	NMT 0.05	ND	mg/Kg	0.01	PASS	
Malathion (and oxon, sum)	NMT 1	ND	mg/Kg	0.02	PASS	
Malathion oxon	Report Results	ND	mg/Kg	0.01	N/A	
Mecarbam	NMT 0.05	ND	mg/Kg	0.01	PASS	
Methacriphos	NMT 0.05	ND	mg/Kg	0.01	PASS	
Methamidophos	NMT 0.05	ND	mg/Kg	0.01	PASS	

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PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Methadathion	NMT 0.2	ND	mg/Kg	0.01	PASS
Monocrotophos	NMT 0.1	ND	mg/Kg	0.01	PASS
Parathion-ethyl (and oxon, sum)	NMT 0.5	ND	mg/Kg	0.02	PASS
Paraoxon ethyl	Report Results	ND	mg/Kg	0.01	N/A
Parathion-methyl (and oxon, sum)	NMT 0.2	ND	mg/Kg	0.02	PASS
Paraoxon methyl	Report Results	ND	mg/Kg	0.01	N/A
Pendimethalin	NMT 0.1	ND	mg/Kg	0.01	PASS
Phosalone	NMT 0.1	ND	mg/Kg	0.01	PASS
Pirimiphos ethyl	NMT 0.05	ND	mg/Kg	0.01	PASS
Pirimphos methyl (and N-desethyl-, sum)	NMT 4	ND	mg/Kg	0.03	PASS
N-desethylpirimiphos methyl	Report Results	ND	mg/Kg	0.02	N/A
Procymidone	NMT 0.1	ND	mg/Kg	0.01	PASS
Profenofos	NMT 0.1	ND	mg/Kg	0.01	PASS
Prothiophos	NMT 0.05	ND	mg/Kg	0.01	PASS
Pyrethrum (sum of following six)	NMT 3	ND	mg/Kg	0.05	PASS
Cinerin I	Report Results	ND	mg/Kg	0.05	N/A
Cinerin II	Report Results	ND	mg/Kg	0.05	N/A
Jasmoline I	Report Results	ND	mg/Kg	0.05	N/A
Jasmoline II	Report Results	ND	mg/Kg	0.05	N/A
Pyrethrin I	Report Results	ND	mg/Kg	0.05	N/A
Pyrethrin II	Report Results	ND	mg/Kg	0.05	N/A
Quinalphos	NMT 0.05	ND	mg/Kg	0.01	PASS
Tetradifon	NMT 0.3	ND	mg/Kg	0.01	PASS
Vinclozolin	NMT 0.4	ND	mg/Kg	0.01	PASS
Aldrin (and Dieldrin, sum)	NMT 0.05	ND	mg/Kg	0.02	PASS
Dieldrin	Report Results	ND	mg/Kg	0.01	N/A
Alachlor	NMT 0.05	ND	mg/Kg	0.01	PASS
Bromopropylate	NMT 3	ND	mg/Kg	0.01	PASS
Chlordanes (sum)	NMT 0.05	ND	mg/Kg	0.02	PASS
cis-Chlordane	Report Results	ND	mg/Kg	0.01	N/A
trans-Chlordane	Report Results	ND	mg/Kg	0.01	N/A
oxy-Chlordane	Report Results	ND	mg/Kg	0.02	N/A
Chlorpyrifos-ethyl	NMT 0.2	ND	mg/Kg	0.01	PASS
Chlorpyrifos-methyl	NMT 0.1	ND	mg/Kg	0.01	PASS
Chlorthal-dimethyl	NMT 0.01	ND	mg/Kg	0.01	PASS
Cyfluthrin	NMT 0.1	ND	mg/Kg	0.02	PASS
lambda-Cyhalothrin	NMT 1	0.038	mg/Kg	0.01	PASS
Cypermethrins	NMT 1	ND	mg/Kg	0.02	PASS
DDT (sum of DDT, DDE, DDD)	NMT 1	ND	mg/Kg	0.01	PASS
o,p-DDT	Report Results	ND	mg/Kg	0.01	N/A
p,p-DDT	Report Results	ND	mg/Kg	0.01	N/A
o,p-DDE	Report Results	ND	mg/Kg	0.01	N/A
p,p-DDE	Report Results	ND	mg/Kg	0.01	N/A
o,p-DDD	Report Results	ND	mg/Kg	0.01	N/A
p,p-DDD	Report Results	ND	mg/Kg	0.01	N/A
Dicofol	NMT 0.5	ND	mg/Kg	0.01	PASS

PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Endosulfans	NMT 3	ND	mg/Kg	0.01	PASS
Endosulfan I	Report Results	ND	mg/Kg	0.01	N/A
Endosulfan II	Report Results	ND	mg/Kg	0.01	N/A
Endosulfan sulfate	Report Results	ND	mg/Kg	0.01	N/A
Endrin	NMT 0.05	ND	mg/Kg	0.01	PASS
Fenvalderate (and esfen-, sum)	NMT 1.5	ND	mg/Kg	0.02	PASS
Esfenvalerate	Report Results	ND	mg/Kg	0.02	N/A
Heptachlor (and epoxide, sum)	NMT 0.05	ND	mg/Kg	0.02	PASS
Heptachlor epoxide (cis/trans)	Report Results	ND	mg/Kg	0.01	N/A
Hexachlorobenzene	NMT 0.1	ND	mg/Kg	0.01	PASS
Hexachlorohexanes (sum)	NMT 0.3	ND	mg/Kg	0.01	PASS
alpha-Hexachlorocyclohexane	Report Results	ND	mg/Kg	0.01	N/A
beta-Hexachlorocyclohexane	Report Results	ND	mg/Kg	0.01	N/A
delta-Hexachlorocyclohexane	Report Results	ND	mg/Kg	0.01	N/A
Lindane	NMT 0.6	ND	mg/Kg	0.01	PASS
Methoxychlor	NMT 0.05	ND	mg/Kg	0.01	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	0.01	PASS
cis-Permethrin	Report Results	ND	mg/Kg	0.01	N/A
trans-Permethin	Report Results	ND	mg/Kg	0.01	N/A
Piperonyl butoxide	NMT 3	ND	mg/Kg	0.01	PASS
Quintozene (sum of following two)	NMT 1	ND	mg/Kg	0.09	PASS
Pentachloroaniline	Report Results	ND	mg/Kg	0.02	N/A
Methyl pentachlorophenyl sulfide	Report Results	ND	mg/Kg	0.05	N/A
Tecnazene	NMT 0.05	ND	mg/Kg	0.01	PASS
S-421	NMT 0.02	ND	mg/Kg	0.01	PASS

Moisture Content		Method Code: T505		Tested: 23JUL2026 1042		
PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES	
Moisture	Report Results	4.18	%	0.1	N/A	

7-Hydroxymitragynine Limit (0.04%)		Method Code: 813		Tested: 23JUL2026 1042		
PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES	
7-Hydroxymitragynine	NMT 400 PPM	33	ppm	7	PASS	

Additional Report Notes

T813 results are reported on a dry-weight basis (DWB). Reported values converted from T102 results using the laboratory-measured moisture content by T505 for each sample:
DWB w/w% = (as-received w/w%) ÷ (1 – moisture%/100). T401 performed at a registered outsourcing facility.

Revision History

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
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