



Certificate of Analysis

Customer Information

Client: Kats Botanicals
Attention: mike@katsbotanicals.com
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Franklin, KY 42134

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: KB-TPS
Lot Number: 1040
Description: Finely ground plant material
Condition: Good
Job ID: ISO07720
Sample ID: I21698
Received: 27JUL2026
Completed: 04AUG2026
Report Date: 04AUG2026

Test Results

Microbial Examination		Method Code: T005		Tested: 30JUL2026 1250		
PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES	
Total Aerobic Plate Count	NMT 10,000,000 CFU/g	60	CFU/g	20 CFU/g	PASS	
Total Yeast and Mold	NMT 100,000 CFU/g	180	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: 04AUG2026 0603		
PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES	
Mitragynine	Report Results	1.23	w/w%	0.0055	N/A	
7-Hydroxymitragynine	Report Results	0.00547	w/w%	0.00073	N/A	
Mitragynine Pseudoindoxyl	Report Results	<LOQ	w/w%	0.0057	N/A	
Mitraciliatine	Report Results	0.0598	w/w%	0.0056	N/A	
Speciociliatine	Report Results	0.400	w/w%	0.0055	N/A	
Speciogynine	Report Results	0.175	w/w%	0.0055	N/A	
Paynantheine	Report Results	0.227	w/w%	0.0055	N/A	
Coryantheidine	Report Results	0.0262	w/w%	0.0056	N/A	
Corynoxine	Report Results	<LOQ	w/w%	0.0054	N/A	
Isorhynchophylline	Report Results	<LOQ	w/w%	0.0055	N/A	
Mitraphylline	Report Results	<LOQ	w/w%	0.0055	N/A	
Total Mitragyna Alkaloids	Report Results	2.13	w/w%	0.0057	N/A	

Elemental Impurities (ICP-MS)	Method Code: T301	Tested: 29JUL2026 0900
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PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Arsenic	NMT 2.00	0.289	ug/g	0.006	PASS
Cadmium	NMT 0.50	0.013	ug/g	0.002	PASS
Mercury	NMT 0.20	0.021	ug/g	0.002	PASS
Lead	NMT 5.00	0.733	ug/g	0.002	PASS

Pesticides (GC-MS/MS)		Method Code: T401		Tested: 29JUL2026 0238		
PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES	
Acephate	Report Results	ND	mg/Kg	0.01	N/A	
Azinphos-ethyl	Report Results	ND	mg/Kg	0.01	N/A	
Azinphos-methyl	Report Results	ND	mg/Kg	0.01	N/A	
Bromophos-ethyl	Report Results	ND	mg/Kg	0.01	N/A	
Bromophos-methyl	Report Results	ND	mg/Kg	0.01	N/A	
Chlorfenvinphos	Report Results	ND	mg/Kg	0.01	N/A	
Deltamethrin	Report Results	ND	mg/Kg	0.01	N/A	
Diazinon	Report Results	ND	mg/Kg	0.01	N/A	
Dichlofluanid	Report Results	ND	mg/Kg	0.01	N/A	
Dichlorvos	Report Results	ND	mg/Kg	0.02	N/A	
Dimethoate (and Omethoate, sum)	Report Results	ND	mg/Kg	0.01	N/A	
Omethaote	Report Results	ND	mg/Kg	0.01	N/A	
Dithiocarbamates (sum, as CS2)	Report Results	ND	mg/Kg	0.10	N/A	
Dithiocarbamate, manganese	Report Results	ND	mg/Kg	0.05	N/A	
Dithiocarbamate, zinc	Report Results	ND	mg/Kg	0.05	N/A	
Ethion	Report Results	ND	mg/Kg	0.01	N/A	
Etrimphos	Report Results	ND	mg/Kg	0.01	N/A	
Fenchlorphos	Report Results	ND	mg/Kg	0.02	N/A	
Fenchlorphos oxon	Report Results	ND	mg/Kg	0.01	N/A	
Fenitrothion	Report Results	ND	mg/Kg	0.01	N/A	
Fenpropathrin	Report Results	ND	mg/Kg	0.01	N/A	
Fensulfothions (sum)	Report Results	ND	mg/Kg	0.04	N/A	
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)	Report Results	ND	mg/Kg	0.02	N/A	
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	Report Results	ND	mg/Kg	0.01	N/A	
Fluvalinate	Report Results	ND	mg/Kg	0.01	N/A	
Fonophos	Report Results	ND	mg/Kg	0.01	N/A	
Malathion (and oxon, sum)	Report Results	ND	mg/Kg	0.02	N/A	
Malathion oxon	Report Results	ND	mg/Kg	0.01	N/A	
Mecarbam	Report Results	ND	mg/Kg	0.01	N/A	
Methacriphos	Report Results	ND	mg/Kg	0.01	N/A	
Methamidophos	Report Results	ND	mg/Kg	0.01	N/A	

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PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Methadathion	Report Results	ND	mg/Kg	0.01	N/A
Monocrotophos	Report Results	ND	mg/Kg	0.01	N/A
Parathion-ethyl (and oxon, sum)	Report Results	ND	mg/Kg	0.02	N/A
Paraoxon ethyl	Report Results	ND	mg/Kg	0.01	N/A
Parathion-methyl (and oxon, sum)	Report Results	ND	mg/Kg	0.02	N/A
Paraoxon methyl	Report Results	ND	mg/Kg	0.01	N/A
Pendimethalin	Report Results	ND	mg/Kg	0.01	N/A
Phosalone	Report Results	ND	mg/Kg	0.01	N/A
Pirimiphos ethyl	Report Results	ND	mg/Kg	0.01	N/A
Pirimphos methyl (and N-desethyl-, sum)	Report Results	ND	mg/Kg	0.03	N/A
N-desethylpirimiphos methyl	Report Results	ND	mg/Kg	0.02	N/A
Procymidone	Report Results	ND	mg/Kg	0.01	N/A
Profenofos	Report Results	ND	mg/Kg	0.01	N/A
Prothiophos	Report Results	ND	mg/Kg	0.01	N/A
Pyrethrum (sum of following six)	Report Results	ND	mg/Kg	0.05	N/A
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	Report Results	ND	mg/Kg	0.01	N/A
Tetradifon	Report Results	ND	mg/Kg	0.01	N/A
Vinclozolin	Report Results	ND	mg/Kg	0.01	N/A
Aldrin (and Dieldrin, sum)	Report Results	ND	mg/Kg	0.02	N/A
Dieldrin	Report Results	ND	mg/Kg	0.01	N/A
Alachlor	Report Results	ND	mg/Kg	0.01	N/A
Bromopropylate	Report Results	ND	mg/Kg	0.01	N/A
Chlordanes (sum)	Report Results	ND	mg/Kg	0.02	N/A
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	Report Results	ND	mg/Kg	0.01	N/A
Chlorpyrifos-methyl	Report Results	ND	mg/Kg	0.01	N/A
Chlorthal-dimethyl	Report Results	ND	mg/Kg	0.01	N/A
Cyfluthrin	Report Results	ND	mg/Kg	0.02	N/A
lambda-Cyhalothrin	Report Results	ND	mg/Kg	0.01	N/A
Cypermethrins	Report Results	0.021	mg/Kg	0.02	N/A
DDT (sum of DDT, DDE, DDD)	Report Results	ND	mg/Kg	0.01	N/A
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	Report Results	ND	mg/Kg	0.01	N/A

PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Endosulfans	Report Results	ND	mg/Kg	0.01	N/A
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	Report Results	ND	mg/Kg	0.01	N/A
Fenvalderate (and esfen-, sum)	Report Results	ND	mg/Kg	0.02	N/A
Esfenvalerate	Report Results	ND	mg/Kg	0.02	N/A
Heptachlor (and epoxide, sum)	Report Results	ND	mg/Kg	0.02	N/A
Heptachlor epoxide (cis/trans)	Report Results	ND	mg/Kg	0.01	N/A
Hexachlorobenzene	Report Results	ND	mg/Kg	0.01	N/A
Hexachlorohexanes (sum)	Report Results	ND	mg/Kg	0.01	N/A
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	Report Results	ND	mg/Kg	0.01	N/A
Methoxychlor	Report Results	ND	mg/Kg	0.01	N/A
Mirex	Report Results	ND	mg/Kg	0.01	N/A
Pentachloroanisole	Report Results	ND	mg/Kg	0.01	N/A
Permethrins (sum)	Report Results	ND	mg/Kg	0.01	N/A
cis-Permethrin	Report Results	ND	mg/Kg	0.01	N/A
trans-Permethin	Report Results	ND	mg/Kg	0.01	N/A
Piperonyl butoxide	Report Results	ND	mg/Kg	0.01	N/A
Quintozene (sum of following two)	Report Results	ND	mg/Kg	0.09	N/A
Pentachloroaniline	Report Results	ND	mg/Kg	0.02	N/A
Methyl pentachlorophenyl sulfide	Report Results	ND	mg/Kg	0.05	N/A
Tecnazene	Report Results	ND	mg/Kg	0.01	N/A
S-421	Report Results	ND	mg/Kg	0.01	N/A

Moisture Content		Method Code: T505		Tested: 29JUL2026 1242	
PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
Moisture	Report Results	6.13	%	0.1	N/A

7-Hydroxymitragynine Limit (0.04%)		Method Code: 813		Tested: 04AUG2026 0603	
PARAMETER	SPECIFICATION	RESULT	UNIT	LOQ	NOTES
7-Hydroxymitragynine	NMT 400 PPM	58	ppm	8	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 by a registered outsourcing facility.

Revision History

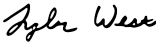
Report ID: 881dc2a0-3447-5527-935d-68125e2e4701
rev 00 - Initial release.

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:

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		Department:	Management
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