

Certificate of Analysis

Sample Name: O.P.M.S. Silver Green Vein Thai 1oz Kratom Powder
Client: Choice Organics
Sample Code: DTS-260710-027
Matrix Name: Raw Botanical - Powder
Type / Result: Quality Assurance - Pass



Received Date: Mon, Jul 13, 2026
Published Date: Thu, Jul 16, 2026
Batch/Lot Code: 26134
Batch Size: N/A
Sample Size: 2oz
Average Unit Weight: 0.6g (One serving is 1/4 TSP.
47 servings/package)

RESULT SUMMARY	
Mitragynine	8.21 mg /serv
Total Major Alkaloids	12.83 mg /serv

ALKU Kratom Alkaloids High Level	ALKL Kratom Alkaloids Low Level	ASP Aspergillus qPCR	SAL Salmonella spp. qPCR	ECOLI Total Coliforms & E. coli Plate
PGUSP Pesticides USP <561>m	PLUSP Pesticides USP <561>m	TAMC Total Aerobic Bacteria Plate	FOROM Foreign Organic Matter	HVMET Heavy Metals Big 4
TYMFD Total Yeast & Mold Plate				

Approvals					
RESULTS REVIEWED BY:			RESULTS CERTIFIED BY:		
	Leslie Nagy Laboratory Director	Cambium Analytica Thursday, Jul 16, 2026		Douglas Smith VP - Scientific Operations	Cambium Analytica Thursday, Jul 16, 2026
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Lab Information		
Address: 1230 Woodmere Ave, Traverse City, MI 49686	Phone: 231.252.3669	Accreditation: ISO/IEC 17025:2017 – #108157



ALKU

Kratom Alkaloids - High Level

LAB-TM-052 - Determination of Kratom Alkaloid Content by UPLC-DAD

ALKU-DTS-260710-027-01 - WED, JUL 15, 2026



Analyte	Value	Value (mg/g)	Per Serving	Per Package	Action Limit	LOD	LOQ	Status
Mitragynine	1.3679 %	13.6793 mg/g	8.21 mg	385.76 mg	N/A	0.0508 mg/g	0.1016 mg/g	N / A
Speciociliatine	0.3106 %	3.1057 mg/g	1.86 mg	87.58 mg	N/A	0.0508 mg/g	0.1016 mg/g	N / A
Paynantheine	0.2629 %	2.6293 mg/g	1.58 mg	74.15 mg	N/A	0.0508 mg/g	0.1016 mg/g	N / A
Speciogynine	0.1965 %	1.9652 mg/g	1.18 mg	55.42 mg	N/A	0.0508 mg/g	0.1016 mg/g	N / A
Total Major Alkaloids *	2.1380 %	21.3795 mg/g	12.83 mg	602.90 mg	N/A	N/A	N/A	N / A

*Total Major Alkaloids is calculated as the sum of Mitragynine, Paynantheine, Speciociliatine and Speciogynine.

ALKL

Kratom Alkaloids - Low Level

LAB-TM-047 - Determination of Kratom Alkaloid Content by LC-TQ

ALKL-DTS-260710-027-01 - THU, JUL 16, 2026



Analyte	Value	Value (mg/g)	Per Serving	Per Package	Action Limit	LOD	LOQ	Status
7-Hydroxymitragynine	0.00340 %	0.03403 mg/g	0.02 mg	0.96 mg	N/A	0.002 ug/g	0.011 ug/g	N / A
Mitraphylline	0.00002 %	0.00015 mg/g	0.00 mg	0.00 mg	N/A	0.004 ug/g	0.019 ug/g	N / A
Total Minor Alkaloids *	0.00342 %	0.03418 mg/g	0.02 mg	0.96 mg	N/A	N/A	N/A	N / A

*Total Minor Alkaloids is calculated as the sum of 7-Hydroxymitragynine and Mitraphylline.

ASP

Aspergillus - qPCR

ANA-TM-125 - Microbial Analysis by qPCR

ASP-DTS-260710-027-01 - THU, JUL 16, 2026



Analyte	Value	Action Limit	LOD	LOQ	Status
Aspergillus Spp	ND	N/A	N/A	N/A	N / A

SAL

Salmonella spp. - qPCR - 25g

LAB-TM-063 - Qualitative Detection of Presumptive Salmonella spp. in Foods and Dietary Supplements

SAL-DTS-260710-027-01 - WED, JUL 15, 2026



Analyte	Value	Action Limit	LOD	LOQ	Status
Salmonella spp.	ND /25 g	N/A	N/A	N/A	N / A

USP <62> - Vendor Modified, USP <2022> - Vendor Modified, USP <1223>, AOAC PTM 121802, AOAC OMA 2020.02

ECOLI

Total Coliforms & E. coli - Plate - 25g - Full Range

LAB-TM-059 - Enumeration of Escherichia coli and Total Coliform in Foods and Dietary Supplements

ECOLI-DTS-260710-027-01 - WED, JUL 15, 2026



Analyte	Value	Action Limit	LOD	LOQ	Status
E. coli	ND	N/A	10 CFU/g	10 CFU/g	N / A
Total Coliforms	ND	N/A	10 CFU/g	10 CFU/g	N / A

USP <61> - Vendor Modified, USP <2021> - Vendor Modified, USP <1223>, AOAC PTM 051801, AOAC OMA 2018.13

Testing was conducted on a 25.2027 gram aliquot



Analyte	Value	Action Limit	LOD	LOQ	Status
Aldrin	ND	N/A	0.002 ug/g	0.006 ug/g	N/A
alpha-Endosulfan	ND	N/A	0.002 ug/g	0.005 ug/g	N/A
alpha-Hexachlorocyclohexane	ND	N/A	0.002 ug/g	0.005 ug/g	N/A
beta-Endosulfan	ND	N/A	0.002 ug/g	0.005 ug/g	N/A
beta-Hexachlorocyclohexane	ND	N/A	0.002 ug/g	0.005 ug/g	N/A
Bromophos-ethyl	ND	0.05 ug/g	0.002 ug/g	0.005 ug/g	PASS
Bromophos-methyl	ND	0.05 ug/g	0.002 ug/g	0.005 ug/g	PASS
Bromopropylate	ND	3 ug/g	0.002 ug/g	0.005 ug/g	PASS
Chlorpyrifos-methyl	ND	0.1 ug/g	0.002 ug/g	0.005 ug/g	PASS
Chlorthal-dimethyl	ND	0.01 ug/g	0.002 ug/g	0.005 ug/g	PASS
cis-Chlordane	ND	N/A	0.002 ug/g	0.005 ug/g	N/A
cis-Heptachlorepoide	ND	N/A	0.002 ug/g	0.005 ug/g	N/A
delta-Hexachlorocyclohexane	ND	N/A	0.002 ug/g	0.005 ug/g	N/A
Dieldrin	ND	N/A	0.002 ug/g	0.005 ug/g	N/A
Endosulfan Sulfate	ND	N/A	0.002 ug/g	0.005 ug/g	N/A
Endrin	ND	0.05 ug/g	0.002 ug/g	0.007 ug/g	PASS
epsilon-Hexachlorocyclohexane	ND	N/A	0.002 ug/g	0.005 ug/g	N/A
Fenchlorophos	ND	N/A	0.002 ug/g	0.005 ug/g	N/A
Fenchlorophos-oxon	ND	N/A	0.002 ug/g	0.005 ug/g	N/A
Fenitrothion	ND	0.5 ug/g	0.002 ug/g	0.005 ug/g	PASS
Fenvalerate	ND	1.5 ug/g	0.002 ug/g	0.005 ug/g	PASS
Heptachlor	ND	N/A	0.002 ug/g	0.005 ug/g	N/A
Hexachlorobenzene	ND	0.1 ug/g	0.002 ug/g	0.005 ug/g	PASS
Lindane (gamma-Hexachlorocyclohexane)	ND	0.6 ug/g	0.002 ug/g	0.005 ug/g	PASS
Methacriphos	ND	0.05 ug/g	0.004 ug/g	0.012 ug/g	PASS
Methylpentachlorophenyl Sulfide	ND	N/A	0.002 ug/g	0.005 ug/g	N/A
Mirex	ND	0.01 ug/g	0.002 ug/g	0.005 ug/g	PASS
o,p'-DDE	ND	N/A	0.002 ug/g	0.005 ug/g	N/A
o,p'-DDT	ND	N/A	0.002 ug/g	0.005 ug/g	N/A
o,p'-TDE	ND	N/A	0.002 ug/g	0.005 ug/g	N/A
Oxychlordane	ND	N/A	0.005 ug/g	0.01 ug/g	N/A
p,p'-DDE	ND	N/A	0.002 ug/g	0.005 ug/g	N/A
p,p'-DDT	ND	N/A	0.002 ug/g	0.005 ug/g	N/A
p,p'-Dicofol	ND	0.5 ug/g	0.002 ug/g	0.005 ug/g	PASS

*Total Chlordanes is calculated as the sum of cis-Chlordane, trans-Chlordane, and Oxychlordane.

*Total DDTs is calculated as the sum of o,p'-DDE, p,p'-DDE, o,p'-DDT, p,p'-DDT, o,p'-TDE, and p,p'-TDE.

*Total Endosulfans is calculated as the sum of alpha-Endosulfan, beta-Endosulfan, and Endosulfan Sulfate.

*Total Fenchlorophos is calculated as the sum of Fenchlorophos and Fenchlorophos-oxon.

*Total Heptachlors is calculated as the sum of Heptachlor, cis-Heptachlorepoide, and trans-Heptachlorepoide.

*Total Hexachlorocyclohexanes is calculated as the sum of alpha-Hexachlorocyclohexane, beta-Hexachlorocyclohexane, and epsilon-Hexachlorocyclohexane.

*Total Quintozenes is calculated as the sum of Pentachloronitrobenzene (Quintozene), Pentachloroaniline, and Methylpentachlorophenyl Sulfide.

Modified test method does not include the following analytes: Bromide, inorganic (calculated as bromide ion), Dichlofluanid, Dithiocarbamates (as CS2), N-desethyl-pirimiphos-methyl





Analyte	Value	Action Limit	LOD	LOQ	Status
p,p'-Methoxychlor	ND	0.05 ug/g	0.004 ug/g	0.013 ug/g	PASS
p,p'-TDE	ND	N/A	0.002 ug/g	0.005 ug/g	N/A
Paraoxon-ethyl	ND	N/A	0.005 ug/g	0.01 ug/g	N/A
Paraoxon-methyl	ND	N/A	0.005 ug/g	0.01 ug/g	N/A
Parathion-ethyl	ND	N/A	0.002 ug/g	0.005 ug/g	N/A
Parathion-methyl	ND	N/A	0.002 ug/g	0.005 ug/g	N/A
Pentachloroaniline	ND	N/A	0.002 ug/g	0.005 ug/g	N/A
Pentachloroanisole	ND	0.01 ug/g	0.002 ug/g	0.005 ug/g	PASS
Pentachloronitrobenzene (Quintozene)	ND	N/A	0.002 ug/g	0.005 ug/g	N/A
Procymidone	ND	0.1 ug/g	0.002 ug/g	0.005 ug/g	PASS
S-421	ND	0.02 ug/g	0.002 ug/g	0.005 ug/g	PASS
tau-Fluvalinate	ND	0.05 ug/g	0.002 ug/g	0.005 ug/g	PASS
Tecnazene	ND	0.05 ug/g	0.002 ug/g	0.005 ug/g	PASS
Tetradifon	ND	0.3 ug/g	0.002 ug/g	0.005 ug/g	PASS
trans-Chlordane	ND	N/A	0.002 ug/g	0.005 ug/g	N/A
trans-Heptachlorepoide	ND	N/A	0.004 ug/g	0.012 ug/g	N/A
Vinclozolin	ND	0.4 ug/g	0.002 ug/g	0.005 ug/g	PASS
Aldrin + Dieldrin	0.000 ug/g	0.05 ug/g	N/A	N/A	PASS
Parathion-ethyl + Paraoxon-ethyl	0.000 ug/g	0.5 ug/g	N/A	N/A	PASS
Parathion-methyl + Paraoxon-methyl	0.000 ug/g	0.2 ug/g	N/A	N/A	PASS
Total Chlordanes - USP *	0.000 ug/g	0.05 ug/g	N/A	N/A	PASS
Total DDTs *	0.000 ug/g	1 ug/g	N/A	N/A	PASS
Total Endosulfans *	0.000 ug/g	3 ug/g	N/A	N/A	PASS
Total Fenchlorophos *	0.000 ug/g	0.1 ug/g	N/A	N/A	PASS
Total Heptachlors *	0.000 ug/g	0.05 ug/g	N/A	N/A	PASS
Total Hexachlorocyclohexanes *	0.000 ug/g	0.3 ug/g	N/A	N/A	PASS
Total Quintozenes *	0.000 ug/g	1 ug/g	N/A	N/A	PASS

*Total Chlordanes is calculated as the sum of cis-Chlordane, trans-Chlordane, and Oxychlordane.

*Total DDTs is calculated as the sum of o,p'-DDE, p,p'-DDE, o,p'-DDT, p,p'-DDT, o,p'-TDE, and p,p'-TDE.

*Total Endosulfans is calculated as the sum of alpha-Endosulfan, beta-Endosulfan, and Endosulfan Sulfate.

*Total Fenchlorophos is calculated as the sum of Fenchlorophos and Fenchlorophos-oxon.

*Total Heptachlors is calculated as the sum of Heptachlor, cis-Heptachlorepoide, and trans-Heptachlorepoide.

*Total Hexachlorocyclohexanes is calculated as the sum of alpha-Hexachlorocyclohexane, beta-Hexachlorocyclohexane, delta-Hexachlorocyclohexane, and epsilon-Hexachlorocyclohexane.

*Total Quintozenes is calculated as the sum of Pentachloronitrobenzene (Quintozene), Pentachloroaniline, and Methylpentachlorophenyl Sulfide.

Modified test method does not include the following analytes: Bromide, inorganic (calculated as bromide ion), Dichlofluanid, Dithiocarbamates (as CS2), N-desethyl-pirimiphos-methyl





Analyte	Value	Action Limit	LOD	LOQ	Status
Acephate	ND	0.1 ug/g	0.012 ug/g	0.025 ug/g	PASS
Alachlor	ND	0.05 ug/g	0.012 ug/g	0.025 ug/g	PASS
Azinphos-ethyl	ND	0.1 ug/g	0.012 ug/g	0.025 ug/g	PASS
Azinphos-methyl	ND	1 ug/g	0.012 ug/g	0.025 ug/g	PASS
Chlorfenvinphos	ND	0.5 ug/g	0.012 ug/g	0.025 ug/g	PASS
Chlorpyrifos-ethyl	ND	0.2 ug/g	0.012 ug/g	0.025 ug/g	PASS
Cyfluthrin	ND	0.1 ug/g	0.1 ug/g	0.1 ug/g	PASS
Cypermethrin	0.571 ug/g	1 ug/g	0.025 ug/g	0.125 ug/g	PASS
Deltamethrin	ND	0.5 ug/g	0.012 ug/g	0.025 ug/g	PASS
Diazinon	ND	0.5 ug/g	0.012 ug/g	0.025 ug/g	PASS
Dichlorvos	ND	1 ug/g	0.012 ug/g	0.025 ug/g	PASS
Dimethoate	ND	N/A	0.012 ug/g	0.025 ug/g	N/A
Ethion	ND	2 ug/g	0.012 ug/g	0.025 ug/g	PASS
Etrimphos	ND	0.05 ug/g	0.012 ug/g	0.025 ug/g	PASS
Fenpropathrin	ND	0.03 ug/g	0.012 ug/g	0.025 ug/g	PASS
Fensulfothion	ND	N/A	0.025 ug/g	0.05 ug/g	N/A
Fensulfothion Oxon	ND	N/A	0.012 ug/g	0.025 ug/g	N/A
Fensulfothion Oxonsulfone	ND	N/A	0.012 ug/g	0.025 ug/g	N/A
Fensulfothion Sulfone	ND	N/A	0.012 ug/g	0.025 ug/g	N/A
Fenthion	ND	N/A	0.012 ug/g	0.025 ug/g	N/A
Fenthion Oxon	ND	N/A	0.012 ug/g	0.025 ug/g	N/A
Fenthion Oxon Sulfone	ND	N/A	0.012 ug/g	0.025 ug/g	N/A
Fenthion Oxon Sulfoxide	ND	N/A	0.012 ug/g	0.025 ug/g	N/A
Fenthion Sulfone	ND	N/A	0.012 ug/g	0.025 ug/g	N/A
Fenthion Sulfoxide	ND	N/A	0.012 ug/g	0.025 ug/g	N/A
Flucythrinate	ND	0.05 ug/g	0.025 ug/g	0.05 ug/g	PASS
Fonophos	ND	0.05 ug/g	0.012 ug/g	0.025 ug/g	PASS
Iambda-Cyhalothrin	ND	1 ug/g	0.025 ug/g	0.125 ug/g	PASS
Malaoxon	ND	N/A	0.012 ug/g	0.025 ug/g	N/A
Malathion	ND	N/A	0.012 ug/g	0.025 ug/g	N/A
Mecarbam	ND	0.05 ug/g	0.012 ug/g	0.025 ug/g	PASS
Methamidophos	ND	0.05 ug/g	0.012 ug/g	0.025 ug/g	PASS
Methidathion	ND	0.2 ug/g	0.012 ug/g	0.025 ug/g	PASS
Monocrotophos	ND	0.1 ug/g	0.012 ug/g	0.025 ug/g	PASS
Omethoate	ND	N/A	0.012 ug/g	0.025 ug/g	N/A

* Permethrin is reported as the sum of cis and trans isomers.

* Total Fensulfothions is calculated as the sum of Fensulfothion, Fensulfothion Oxon, Fensulfothion Oxonsulfone, and Fensulfothion Sulfone.

* Total Fenthions is calculated as the sum of Fenthion, Fenthion Oxon, Fenthion Oxon Sulfone, Fenthion Oxon Sulfoxide, Fenthion Sulfone, and Fenthion Sulfoxide.

* Total Pyrethrins is calculated as the sum of Cinerin I, Cinerin II, Jasmolin I, Jasmolin II, Pyrethrin I, and Pyrethrin II.

Modified test method does not include the following analytes: Bromide, inorganic (calculated as bromide ion), Dichlofluanid, Dithiocarbamates (as CS2), N-desethyl-pirimiphos-methyl





Analyte	Value	Action Limit	LOD	LOQ	Status
Pendimethalin	ND	0.1 ug/g	0.012 ug/g	0.025 ug/g	PASS
Permethrin *	ND	1 ug/g	0.012 ug/g	0.025 ug/g	PASS
Phosalone	ND	0.1 ug/g	0.012 ug/g	0.025 ug/g	PASS
Phosmet	ND	0.05 ug/g	0.012 ug/g	0.025 ug/g	PASS
Piperonyl Butoxide	ND	3 ug/g	0.012 ug/g	0.025 ug/g	PASS
Pirimiphos-ethyl	ND	0.05 ug/g	0.012 ug/g	0.025 ug/g	PASS
Pirimiphos-methyl	ND	4 ug/g	0.012 ug/g	0.025 ug/g	PASS
Profenophos	ND	0.1 ug/g	0.012 ug/g	0.025 ug/g	PASS
Prothiophos	ND	0.05 ug/g	0.025 ug/g	0.05 ug/g	PASS
Pyrethrins Cinerin I	ND	N/A	0.004 ug/g	0.008 ug/g	N/A
Pyrethrins Cinerin II	ND	N/A	0.002 ug/g	0.005 ug/g	N/A
Pyrethrins Jasmolin I	ND	N/A	0.000 ug/g	0.002 ug/g	N/A
Pyrethrins Jasmolin II	ND	N/A	0.001 ug/g	0.002 ug/g	N/A
Pyrethrins Pyrethrin I	ND	N/A	0.007 ug/g	0.034 ug/g	N/A
Pyrethrins Pyrethrin II	ND	N/A	0.003 ug/g	0.016 ug/g	N/A
Quinalphos	ND	0.05 ug/g	0.012 ug/g	0.025 ug/g	PASS
Dimethoate + Omethoate	0.000 ug/g	0.1 ug/g	N/A	N/A	PASS
Malathion + Malaoxon	0.000 ug/g	1 ug/g	N/A	N/A	PASS
Total Fensulfothions *	0.000 ug/g	0.05 ug/g	N/A	N/A	PASS
Total Fenthions *	0.000 ug/g	0.05 ug/g	N/A	N/A	PASS
Total Pyrethrins *	0.000 ug/g	3 ug/g	N/A	N/A	PASS

*Permethrin is reported as the sum of cis and trans isomers.

*Total Fensulfothions is calculated as the sum of Fensulfothion, Fensulfothion Oxon, Fensulfothion Oxonsulfone, and Fensulfothion Sulfone.

*Total Fenthions is calculated as the sum of Fenthion, Fenthion Oxon, Fenthion Oxon Sulfone, Fenthion Oxon Sulfoxide, Fenthion Sulfone, and Fenthion Sulfoxide.

*Total Pyrethrins is calculated as the sum of Cinerin I, Cinerin II, Jasmolin I, Jasmolin II, Pyrethrin I, and Pyrethrin II.

Modified test method does not include the following analytes: Bromide, inorganic (calculated as bromide ion), Dichlofluanid, Dithiocarbamates (as CS2), N-desethyl-pirimiphos-methyl



TAMC

Total Aerobic Bacteria - Plate - 25g - Full Range

LAB-TM-060 - Enumeration of Total Aerobic Count in Foods and Dietary Supplements

TAMC-DTS-260710-027-01 - WED, JUL 15, 2026



Analyte	Value	Action Limit	LOD	LOQ	Status
Total Aerobic Count	ND	N/A	10 CFU/g	10 CFU/g	N / A

USP <61> - Vendor Modified, USP <1223>, AOAC PTM 121403, AOAC OMA 2015.13

Testing was conducted on a 25.2027 gram aliquot

FOROM

Foreign Organic Matter

LAB-TM-007 - Foreign Matter and Filth Analysis

FOROM-DTS-260710-027-01 - WED, JUL 15, 2026

Analyte	Value	Action Limit	LOD	LOQ	Status
Inorganic Matter	0.000 %	N/A	N/A	N/A	N / A
Organic Matter	0.000 %	N/A	N/A	N/A	N / A

HVMET

Heavy Metals - Big 4

LAB-TM-044 - Determination of Heavy Metals by ICP-MS

HVMET-DTS-260710-027-01 - THU, JUL 16, 2026



Analyte	Value	Value (mg/g)	Per Serving	Per Package	Action Limit	LOD	LOQ	Status
Arsenic	0.181 ug/g	0.000 mg/g	0.11 ug	5.09 ug	N/A	44.096 ug/kg	122.489 ug/kg	N / A
Cadmium	<LOQ	N/A	N/A	N/A	N/A	8.819 ug/kg	30.622 ug/kg	N / A
Lead	0.608 ug/g	0.001 mg/g	0.36 ug	17.15 ug	N/A	5.390 ug/kg	30.622 ug/kg	N / A
Mercury	0.019 ug/g	0.000 mg/g	0.01 ug	0.53 ug	N/A	1.715 ug/kg	3.062 ug/kg	N / A

USP <233>, USP <730>, USP <1730>

TYMFD

Total Yeast & Mold - Plate - 25g - Full Range

LAB-TM-061 - Enumeration of Yeast and Mold in Foods and Dietary Supplements

TYMFD-DTS-260710-027-01 - THU, JUL 16, 2026



Analyte	Value	Action Limit	LOD	LOQ	Status
Total Mold	ND	N/A	10 CFU/g	10 CFU/g	N / A
Total Yeast	ND	N/A	10 CFU/g	10 CFU/g	N / A
Total Yeast and Mold *	0 CFU/g	N/A	N/A	N/A	N / A

*Total Yeast and Mold is calculated as the sum of Total Yeast and Total Mold

USP <61> - Vendor Modified, USP <1223>, AOAC PTM 121301, AOAC OMA 2014.05

Testing was conducted on a 25.2027 gram aliquot

