

Certificate of Analysis

Produced: Jul 28, 2025

Sample: KF0725HO-1 (Tincture) • Client: Vanguard Enterprises • Batch: Pass



Batch No.: KF0725HO-1
Matrix: Tincture
Sample ID: ICC-250723-18-001
Collected on: Jul 23, 2025
Received on: Jul 23, 2025
Batch Size:
Sample Size: 15 Units
Package Size: 17.91 g

Batch Result: Pass

Alkaloids	Tested	Mycotoxins	Pass
Solvents	Pass	Pesticides	Pass
Metals	Pass	Foreign	Pass
Microbial	Pass		

Cannabinoid Overview	
7-OH-Mitragynine:	0.000 mg/pkg
Mitragynine:	337 mg/pkg
Sum of Alkaloids:	337 mg/pkg

KRAT-PREP-001: KRAT-PREP-001: Kratom Potency • Jul 24, 2025

Analyte	Amt (mg/pkg)	Amt (%)	LOD/LOQ (mg/g)	Analyte	Amt (mg/pkg)	Amt (%)	LOD/LOQ (mg/g)
Mitragynine	337	1.88	0.0337/0.410	Speciociliatine		ND	0.0418/0.410
Paynantheine		< LOQ	0.0240/0.410	7-OH-Mitragynine		ND	0.0308/0.410
Speciogynine		< LOQ	0.0372/0.410	Mitragynine pseudoindoxyl		ND	0.0503/0.151
Corynantheidine		< LOQ	0.0522/0.414				

Compliance requirements for this test are taken from No Compliance regulations.



RS-PREP-001, RS-INST-003: RS-PREP-001, RS-INST-003: Kratom Residual Solvents • Jul 25, 2025

Analyte	Limit (µg/g)	Amt (µg/g)	LOD/LOQ (µg/g)	Pass/Fail	Analyte	Limit (µg/g)	Amt (µg/g)	LOD/LOQ (µg/g)	Pass/Fail
1,2-Dichloroethane	1	ND	0.0809/0.243	Pass	Hexane	290	ND	4.06/12.2	Pass
Acetone	5000	ND	29.8/89.5	Pass	Isopropyl alcohol	5000	ND	34.4/103	Pass
Acetonitrile	410	ND	5.01/15.0	Pass	Methanol	3000	ND	28.1/84.3	Pass
Benzene	1	ND	0.0239/0.0716	Pass	Methylene chloride	1	ND	6.33/19.0	Pass
Butane	5000	ND	31.0/92.9	Pass	Pentane	5000	ND	29.0/86.9	Pass
Chloroform	1	ND	0.823/2.47	Pass	Propane	5000	ND	22.5/67.4	Pass
Ethanol	5000	ND	25.7/77.2	Pass	Toluene	890	ND	12.1/36.2	Pass
Ethyl acetate	5000	ND	31.5/94.4	Pass	Trichloroethylene	1	ND	0.753/2.26	Pass
Ethylene oxide	1	ND	1.49/4.48	Pass	o-Xylene		ND	15.1/45.3	N/A
Ethyl ether	5000	ND	36.8/110	Pass	p- and m-Xylene		ND	15.6/46.7	N/A
Heptane	5000	ND	34.0/102	Pass	Total xylenes	2170	ND		Pass

Compliance requirements for this test are taken from CA Cannabis/Hemp (Based on Submission Type) regulations.

HM-PREP-001, HM-INST-003: HM-PREP-001, HM-INST-003: Heavy Metals Testing by ICP-MS • Jul 23, 2025

Analyte	Limit (µg/g)	Amt (µg/g)	LOD/LOQ (µg/g)	Pass/Fail	Analyte	Limit (µg/g)	Amt (µg/g)	LOD/LOQ (µg/g)	Pass/Fail
Arsenic	1.5	ND	0.00300/0.00900	Pass	Lead	0.5	ND	0.00100/0.00400	Pass
Cadmium	0.5	ND	0.00100/0.00200	Pass	Mercury	3	ND	0.00500/0.0140	Pass

Compliance requirements for this test are taken from CA Cannabis/Hemp (Based on Submission Type) regulations.

MICRO-008, MICRO-PREP-001, MICRO-INST-001: MICRO-008, MICRO-PREP-001, MICRO-INST-001: PCR-Microbial (noninhalable) • Jul 24, 2025

Analyte	Limit	Amt	Pass/Fail	Analyte	Limit	Amt	Pass/Fail
Salmonella spp.	Any amt in 1 gram	ND	Pass	Shiga toxin-producing E. coli	Any amt in 1 gram	ND	Pass

Compliance requirements for this test are taken from CA Cannabis/Hemp (Based on Submission Type) regulations.

MICR-005, MICR-006: MICR-005, MICR-006: Petrifilm-Rapid Yeast & Mold • Jul 25, 2025

Analyte	Limit (CFU/g)	Amt (CFU/g)	Pass/Fail
Yeast & Mold	1000	<100	Pass

Compliance requirements for this test are taken from CO Hemp regulations.

PESTMYCO-LC-PREP-001, PESTMYCO-LC-INST-004: PESTMYCO-LC-PREP-001, PESTMYCO-LC-INST-004: Mycotoxin Analysis by LC-MS/MS • Jul 25, 2025

Analyte	Limit (µg/kg)	Amt (µg/kg)	LOD/LOQ (µg/kg)	Pass/Fail	Analyte	Limit (µg/kg)	Amt (µg/kg)	LOD/LOQ (µg/kg)	Pass/Fail
Aflatoxin B1		ND	2.05/6.20	N/A	Aflatoxin G2		ND	1.02/5.00	N/A
Aflatoxin B2		ND	1.63/5.00	N/A	Aflatoxins	20	ND		Pass
Aflatoxin G1		ND	1.77/5.38	N/A	Ochratoxin A	20	ND	5.42/16.4	Pass

Compliance requirements for this test are taken from CA Cannabis/Hemp (Based on Submission Type) regulations.

PEST-GC-PREP-001, PEST-GC-INST-003: PEST-GC-PREP-001, PEST-GC-INST-003: Pesticide Analysis by GC-MS/MS • Jul 25, 2025

Analyte	Limit (µg/g)	Amt (µg/g)	LOD/LOQ (µg/g)	Pass/Fail	Analyte	Limit (µg/g)	Amt (µg/g)	LOD/LOQ (µg/g)	Pass/Fail
Captan	5	ND	0.120/0.358	Pass	Cypermethrin	1	ND	0.0145/0.0435	Pass
Chlordane	Any amt	ND	0.0249/0.0747	Pass	Methyl parathion	Any amt	ND	0.00811/0.0243	Pass
Chlorfenapyr	Any amt	ND	0.0251/0.0753	Pass	Pentachloronitrobenzene	0.2	ND	0.0182/0.0545	Pass
Cyfluthrin	1	ND	0.0186/0.0558	Pass					

Compliance requirements for this test are taken from CA Cannabis/Hemp (Based on Submission Type) regulations.



PESTMYCO-LC-PREP-001, PESTMYCO-LC-INST-004: PESTMYCO-LC-PREP-001, PESTMYCO-LC-INST-004: Pesticide Analysis by LC-MS/MS • Jul 25, 2025

Analyte	Limit (µg/g)	Amt (µg/g)	LOD/LOQ (µg/g)	Pass/Fail	Analyte	Limit (µg/g)	Amt (µg/g)	LOD/LOQ (µg/g)	Pass/Fail
Abamectin	0.3	ND	0.0500/0.100	Pass	Metalaxyl	15	ND	0.00340/0.0300	Pass
Abamectin Ba		ND	0.0330/0.0990	N/A	Methiocarb	Any amt	ND	0.00542/0.0300	Pass
Acephate	5	ND	0.0209/0.0635	Pass	Methomyl	0.1	ND	0.00645/0.0300	Pass
Acequinocyl	4	ND	0.0115/0.0347	Pass	Mevinphos	Any amt	ND	0.0105/0.0319	Pass
Acetamiprid	5	ND	0.00581/0.0300	Pass	Myclobutanil	9	ND	0.00735/0.0300	Pass
Aldicarb	Any amt	ND	0.00935/0.0300	Pass	Naled	0.5	ND	0.00459/0.0300	Pass
Azoxystrobin	40	ND	0.00322/0.0300	Pass	Oxamyl	0.2	ND	0.00850/0.0300	Pass
Bifenazate	5	ND	0.00473/0.0300	Pass	Paclobutrazol	Any amt	ND	0.00577/0.0300	Pass
Bifenthrin	0.5	ND	0.00583/0.0300	Pass	Permethrin	20	ND	0.00178/0.0300	Pass
Boscalid	10	ND	0.00747/0.0300	Pass	Permethrin cis		ND	0.0200/0.0300	N/A
Carbaryl	0.5	ND	0.00404/0.0300	Pass	Permethrin trans		ND	0.0200/0.0300	N/A
Carbofuran	Any amt	ND	0.00239/0.0300	Pass	Phosmet	0.2	ND	0.00527/0.0300	Pass
Chlorantraniliprole	40	ND	0.00563/0.0300	Pass	Piperonylbutoxide	8	ND	0.00635/0.0300	Pass
Chlorpyrifos	Any amt	ND	0.00807/0.0300	Pass	Prallethrin	0.4	ND	0.0180/0.0546	Pass
Clofentezine	0.5	ND	0.00464/0.0300	Pass	Propiconazole	20	ND	0.0124/0.0375	Pass
Coumaphos	Any amt	ND	0.00463/0.0300	Pass	Propoxur	Any amt	ND	0.00524/0.0300	Pass
Daminozide	Any amt	ND	0.0107/0.0325	Pass	Pyrethrins	1	ND	0.00192/0.0300	Pass
Diazinon	0.2	ND	0.00926/0.0300	Pass	Pyrethrins Jasmolin I		ND		N/A
Dichlorvos	Any amt	ND	0.00728/0.0300	Pass	Pyrethrins Jasmolin II		ND		N/A
Dimethoate	Any amt	ND	0.00650/0.0300	Pass	Pyrethrins Pyrethrin I		ND	0.0100/0.0450	N/A
Dimethomorph	20	ND	0.00871/0.0300	Pass	Pyrethrins Pyrethrin II		ND	0.0100/0.0300	N/A
Ethoprophos	Any amt	ND	0.00391/0.0300	Pass	Pyridaben	3	ND	0.00547/0.0300	Pass
Etofenprox	Any amt	ND	0.00550/0.0300	Pass	Spinetoram	3	ND	0.00295/0.0300	Pass
Etoxazole	1.5	ND	0.00349/0.0300	Pass	Spinetoram J		ND	0.00500/0.0100	N/A
Fenhexamid	10	ND	0.00833/0.0300	Pass	Spinetoram L		ND	0.00500/0.0100	N/A
Fenoxycarb	Any amt	ND	0.00572/0.0300	Pass	Spinosad	3	ND	0.00275/0.0300	Pass
Fenpyroximate	2	ND	0.00549/0.0300	Pass	Spinosad A		ND	0.00500/0.0100	N/A
Fipronil	Any amt	ND	0.00771/0.0300	Pass	Spinosad D		ND	0.00500/0.0100	N/A
Flonicamid	2	ND	0.0151/0.0458	Pass	Spiromesifen	12	ND	0.00540/0.0300	Pass
Fludioxonil	30	ND	0.0158/0.0478	Pass	Spirotetramat	13	ND	0.00648/0.0300	Pass
Hexythiazox	2	ND	0.0102/0.0308	Pass	Spiroxamine	Any amt	ND	0.00264/0.0300	Pass
Imazalil	Any amt	ND	0.00863/0.0300	Pass	Tebuconazole	2	ND	0.00895/0.0300	Pass
Imidacloprid	3	ND	0.00861/0.0300	Pass	Thiacloprid	Any amt	ND	0.00177/0.0300	Pass
Kresoxim-methyl	1	ND	0.00703/0.0300	Pass	Thiamethoxam	4.5	ND	0.00553/0.0300	Pass
Malathion	5	ND	0.00485/0.0300	Pass	Trifloxystrobin	30	ND	0.00234/0.0300	Pass

Compliance requirements for this test are taken from CA Cannabis/Hemp (Based on Submission Type) regulations.

