

Certificate of Analysis

Produced: Mar 19, 2026

Sample: 180MIT (Concentrate) • Client: Vanguard Enterprises • Batch: Pass



Batch No.: 180MIT
Matrix: Concentrate
Sample ID: ICC-260206-12-001
Collected on: Feb 06, 2026
Received on: Feb 06, 2026
Batch Size:
Sample Size: 5 g
Package Size: 3.24 g
Serving Size: 0.65 g

Batch Result: Pass

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

Kratom Overview

7-OH-Mitragynine:	0.000 mg/srv
Mitragynine:	90.4 mg/srv
Sum of Kratom Alkaloids:	132 mg/srv

KRAT-PREP-001: KRAT-PREP-001: Kratom Potency • Feb 09, 2026

Analyte	Amt (mg/srv)	Amt (mg/pkg)	Amt (%)	LOD/LOQ (mg/g)	Analyte	Amt (mg/srv)	Amt (mg/pkg)	Amt (%)	LOD/LOQ (mg/g)
MGM-15			ND	0.0192/0.0576	Corynantheidine	2.57	12.8	0.396	0.0512/0.405
Mitragynine	90.4	450	13.9	0.0330/0.402	Speciociliatine	17.3	86.2	2.66	0.0410/0.402
Paynantheine	12.4	61.9	1.91	0.0236/0.402	7-OH-Mitragynine			ND	0.0302/0.402
Speciogynine	9.49	47.3	1.46	0.0365/0.402	Mitragynine pseudoindoxyl			ND	0.0493/0.148

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



DM

Erik Paulson

RS-INST-003, RS-PREP-001: RS-INST-003, RS-PREP-001: Kratom Residual Solvents • Mar 12, 2026 19:49:00 PDT

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	0.0788/0.236	Pass	Hexane	290	ND	3.95/11.9	Pass
Acetone	5000	ND	29.1/87.2	Pass	Isopropyl alcohol	5000	ND	33.5/101	Pass
Acetonitrile	410	ND	4.88/14.6	Pass	Methanol	3000	342	27.4/82.1	Pass
Benzene	1	ND	0.0232/0.0697	Pass	Methylene chloride	1	ND	6.17/18.5	Pass
Butane	5000	ND	30.2/90.5	Pass	Pentane	5000	ND	28.2/84.6	Pass
Chloroform	1	ND	0.802/2.41	Pass	Propane	5000	ND	21.9/65.7	Pass
Ethanol	5000	ND	25.1/75.2	Pass	Toluene	890	ND	11.7/35.2	Pass
Ethyl acetate	5000	ND	30.7/92.0	Pass	Trichloroethylene	1	ND	0.734/2.20	Pass
Ethylene oxide	1	ND	1.45/4.36	Pass	o-Xylene		ND	14.7/44.1	N/A
Ethyl ether	5000	ND	35.9/108	Pass	p- and m-Xylene		< LOQ	15.2/45.5	N/A
Heptane	5000	ND	33.1/99.4	Pass	Total xylenes	2170	< LOQ		Pass

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

HM-INST-003, HM-PREP-001: HM-INST-003, HM-PREP-001: Heavy Metals Testing by ICP-MS • Mar 12, 2026 12:15:00 PDT

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	0.2	< LOQ	0.00300/0.00900	Pass	Lead	0.5	0.0126	0.00100/0.00400	Pass
Cadmium	0.2	ND	0.00100/0.00200	Pass	Mercury	0.1	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-INST-001, MICRO-PREP-001: MICRO-008, MICRO-INST-001, MICRO-PREP-001: PCR-Microbial (noninhalable) • Mar 17, 2026 12:02:00 PDT

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-004, MICR-006: MICR-004, MICR-006: Petrifilm-Rapid Yeast & Mold • Mar 18, 2026 18:03:00 PDT

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

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

PEST-GC-INST-003, PEST-GC-PREP-001: PEST-GC-INST-003, PEST-GC-PREP-001: Pesticide Analysis by GC-MS/MS • Mar 13, 2026 14:19:00 PDT

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	0.7	ND	0.120/0.358	Pass	Cypermethrin	1	ND	0.0602/0.181	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	0.1	ND	0.0182/0.0545	Pass
Cyfluthrin	2	ND	0.0186/0.0558	Pass					

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



Signature of David Marelius

Signature of Erik Paulson

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	0.1	ND	0.0500/0.100	Pass	Imazalil	Any amt	ND	0.00898/0.0300	Pass
Acephate	0.1	ND	0.00743/0.0300	Pass	Imidacloprid	5	ND	0.0109/0.0331	Pass
Acequinocyl	0.1	ND	0.0150/0.0456	Pass	Kresoxim-methyl	0.1	ND	0.00708/0.0300	Pass
Acetamiprid	0.1	ND	0.00496/0.0300	Pass	Malathion	0.5	ND	0.00313/0.0300	Pass
Aldicarb	Any amt	ND	0.00838/0.0300	Pass	Metaxyl	2	ND	0.00467/0.0300	Pass
Azoxystrobin	0.1	ND	0.00530/0.0300	Pass	Methiocarb	Any amt	ND	0.00245/0.0300	Pass
Bifenazate	0.1	ND	0.00706/0.0300	Pass	Methomyl	1	ND	0.00879/0.0300	Pass
Bifenthrin	3	ND	0.00439/0.0300	Pass	Mevinphos	Any amt	ND	0.00772/0.0300	Pass
Boscalid	0.1	ND	0.00809/0.0300	Pass	Myclobutanil	0.1	ND	0.00707/0.0300	Pass
Carbaryl	0.5	ND	0.00604/0.0300	Pass	Naled	0.1	ND	0.00849/0.0300	Pass
Carbofuran	Any amt	ND	0.00538/0.0300	Pass	Oxamyl	0.5	ND	0.00746/0.0300	Pass
Chlorantraniliprole	10	ND	0.00883/0.0300	Pass	Paclobutrazol	Any amt	ND	0.00851/0.0300	Pass
Chlorpyrifos	Any amt	ND	0.0152/0.0460	Pass	Permethrin	0.5	ND	0.00190/0.0300	Pass
Clofentezine	0.1	ND	0.00206/0.0300	Pass	Phosmet	0.1	ND	0.00511/0.0300	Pass
Coumaphos	Any amt	ND	0.00393/0.0300	Pass	Piperonylbutoxide	3	ND	0.00267/0.0300	Pass
Daminozide	Any amt	ND	0.0176/0.0534	Pass	Prallethrin	0.1	ND	0.0235/0.0711	Pass
Diazinon	0.1	ND	0.00475/0.0300	Pass	Propiconazole	0.1	ND	0.00909/0.0300	Pass
Dichlorvos	Any amt	ND	0.0182/0.0550	Pass	Propoxur	Any amt	ND	0.00780/0.0300	Pass
Dimethoate	Any amt	ND	0.00592/0.0300	Pass	Pyrethrins	0.5	ND	0.00278/0.0300	Pass
Dimethomorph	2	ND	0.00454/0.0300	Pass	Pyridaben	0.1	ND	0.00231/0.0300	Pass
Ethoprophos	Any amt	ND	0.00610/0.0300	Pass	Spinetoram	0.1	ND	0.00119/0.0300	Pass
Etofenprox	Any amt	ND	0.00437/0.0300	Pass	Spinosad	0.1	ND	0.000830/0.0300	Pass
Etoxazole	0.1	ND	0.00365/0.0300	Pass	Spiromesifen	0.1	ND	0.00894/0.0300	Pass
Fenhexamid	0.1	ND	0.0113/0.0342	Pass	Spirotetramat	0.1	ND	0.00808/0.0300	Pass
Fenoxycarb	Any amt	ND	0.00415/0.0300	Pass	Spiroxamine	Any amt	ND	0.00555/0.0300	Pass
Fenpyroximate	0.1	ND	0.00396/0.0300	Pass	Tebuconazole	0.1	ND	0.00605/0.0300	Pass
Fipronil	Any amt	ND	0.0165/0.0500	Pass	Thiacloprid	Any amt	ND	0.00506/0.0300	Pass
Fonicamid	0.1	ND	0.0115/0.0350	Pass	Thiamethoxam	5	ND	0.00760/0.0300	Pass
Fludioxonil	0.1	ND	0.0119/0.0362	Pass	Trifloxystrobin	0.1	ND	0.00293/0.0300	Pass
Hexythiazox	0.1	ND	0.00124/0.0300	Pass					

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



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