

Certificate of Analysis

Produced: Sep 12, 2025

Sample: CBD Isolate (Concentrate) • Client: Red Mesa Science and Refining • Batch: Pass



Batch No.: R250902MS08MS126
Matrix: Concentrate
Sample ID: ICC-250912-07-001
Collected on: Sep 12, 2025
Received on: Sep 12, 2025
Sample Size: 10 g

Batch Result: Pass

Potency	Tested
Solvents	Pass
Metals	Pass
Mycotoxins	Pass
Pesticides	Pass

Cannabinoid Overview

Total THC:	0.000 %
Total CBD:	99.4 %
Total Cannabinoids:	99.7 %
Sum of Cannabinoids:	99.7 %

POT-INST-005, POT-PREP-001: POT-INST-005, POT-PREP-001: Potency • Sep 12, 2025

Analyte	Amt (%)	Amt (mg/g)	LOD/LOQ (mg/g)	Pass/Fail	Analyte	Amt (%)	Amt (mg/g)	LOD/LOQ (mg/g)	Pass/Fail
CBC	ND	ND	0.340/1.02	N/A	CBT	ND	ND	0.147/0.515	N/A
CBD	99.4	994	0.104/0.515	N/A	Δ ⁸ -THC	ND	ND	0.0832/0.515	N/A
CBDA	ND	ND	0.248/0.745	N/A	Δ ⁹ -THC	ND	ND	0.137/0.515	N/A
CBDV	0.307	3.07	0.0823/0.515	N/A	THCA	ND	ND	0.189/0.567	N/A
CBG	< 1 mg/g	< 1 mg/g	0.117/0.515	N/A	THCV	ND	ND	0.0636/0.515	N/A
CBGA	ND	ND	0.183/0.550	N/A	Total THC**	ND	ND		N/A
CBL	ND	ND	0.0810/0.515	N/A	Total CBD**	99.4	994		N/A
CBN	ND	ND	0.117/0.515	N/A	Total Cannabinoids**	99.7	997		N/A

** Total Cannabinoids = Neutral Cannabinoids + (Acidic Cannabinoids * 0.877)
** Total THC = Delta-10-THC + Delta-8-THC + (Delta-8-THCA x 0.877) + Delta-9-THC + THC-O-acetate + (THCA x 0.877)
** Total CBD = CBD + (CBDA x 0.877)
NR= Not Reported, ND= Not Detected, *Reported by Dry Mass*; *analytical instrumentation used Cannabinoids: UHPLC-DAD, Moisture: Mass by Drying, Water Activity: Water Activity Meter, Foreign: Microscope*
*Density tested at a temperature range between 19-24 °C, *Water Activity tested at a humidity range between 0-90% Relative Humidity. All OA samples are sampled by the client, All California State Compliant samples sampled using SAMPL-SOP-001.



RS-INST-003, RS-PREP-001: RS-INST-003, RS-PREP-001: Residual Solvents by GC-MS • Sep 12, 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	0.168/0.512	Pass	Hexane	290	209	0.0664/0.283	Pass
Acetone	5000	ND	17.2/51.6	Pass	Isopropyl alcohol	5000	ND	1.29/3.86	Pass
Acetonitrile	410	ND	0.121/0.361	Pass	Methanol	3000	ND	2.99/8.97	Pass
Benzene	1	ND	0.0211/0.0643	Pass	Methylene chloride	1	ND	0.128/0.734	Pass
Butane	5000	ND	0.977/4.88	Pass	Pentane	5000	ND	0.968/4.30	Pass
Chloroform	1	ND	0.0362/0.109	Pass	Propane	5000	ND	4.46/13.4	Pass
Ethanol	5000	ND	2.63/7.89	Pass	Toluene	890	ND	0.0886/0.869	Pass
Ethyl acetate	5000	ND	0.315/2.30	Pass	Trichloroethylene	1	ND	0.0181/0.146	Pass
Ethylene oxide	1	ND	0.154/0.583	Pass	o-Xylene		3.19	0.101/0.862	N/A
Ethyl ether	5000	ND	1.19/3.57	Pass	p- and m-Xylene		ND	0.116/1.73	N/A
Heptane	5000	ND	0.691/2.88	Pass	Total xylenes	2170	3.19		Pass

HM-INST-003, HM-PREP-001: HM-INST-003, HM-PREP-001: Heavy Metals Testing by ICP-MS • Sep 12, 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	0.2	ND	0.00300/0.00900	Pass	Lead	0.5	< LOQ	0.00100/0.00400	Pass
Cadmium	0.2	ND	0.00100/0.00200	Pass	Mercury	0.1	ND	0.00500/0.0140	Pass

PESTMYCO-LC-INST-004, PESTMYCO-LC-PREP-001: PESTMYCO-LC-INST-004, PESTMYCO-LC-PREP-001: Mycotoxin Analysis by LC-MS/MS • Sep 12, 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	2.96/8.98	N/A	Aflatoxin G2		ND	2.07/6.26	N/A
Aflatoxin B2		ND	3.36/10.2	N/A	Aflatoxins	20	ND		Pass
Aflatoxin G1		ND	1.73/5.25	N/A	Ochratoxin A	20	ND	4.41/13.4	Pass

PEST-GC-INST-003, PEST-GC-PREP-001: PEST-GC-INST-003, PEST-GC-PREP-001: Pesticide Analysis by GC-MS/MS • Sep 12, 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	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					



PESTMYCO-LC-INST-004, PESTMYCO-LC-PREP-001: PESTMYCO-LC-INST-004, PESTMYCO-LC-PREP-001: Pesticide Analysis by LC-MS/MS • Sep 12, 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	0.1	ND	0.0500/0.100	Pass	Methiocarb	Any amt	ND	0.00245/0.0300	Pass
Abamectin Ba		ND	0.0330/0.0990	N/A	Methomyl	1	ND	0.00879/0.0300	Pass
Acephate	0.1	ND	0.00743/0.0300	Pass	Mevinphos	Any amt	ND	0.00772/0.0300	Pass
Acequinocyl	0.1	ND	0.0150/0.0456	Pass	Myclobutanil	0.1	ND	0.00707/0.0300	Pass
Acetamiprid	0.1	ND	0.00496/0.0300	Pass	Naled	0.1	ND	0.00849/0.0300	Pass
Aldicarb	Any amt	ND	0.00838/0.0300	Pass	Oxamyl	0.5	ND	0.00746/0.0300	Pass
Azoxystrobin	0.1	ND	0.00530/0.0300	Pass	Paclobutrazol	Any amt	ND	0.00851/0.0300	Pass
Bifenazate	0.1	ND	0.00706/0.0300	Pass	Permethrin	0.5	ND	0.00190/0.0300	Pass
Bifenthrin	3	ND	0.00439/0.0300	Pass	Permethrin cis		ND	0.0200/0.0300	N/A
Boscalid	0.1	ND	0.00809/0.0300	Pass	Permethrin trans		ND	0.0200/0.0300	N/A
Carbaryl	0.5	ND	0.00604/0.0300	Pass	Phosmet	0.1	ND	0.00511/0.0300	Pass
Carbofuran	Any amt	ND	0.00538/0.0300	Pass	Piperonylbutoxide	3	ND	0.00267/0.0300	Pass
Chlorantraniliprole	10	ND	0.00883/0.0300	Pass	Prallethrin	0.1	ND	0.0235/0.0711	Pass
Chlorpyrifos	Any amt	ND	0.0152/0.0460	Pass	Propiconazole	0.1	ND	0.00909/0.0300	Pass
Clofentezine	0.1	ND	0.00206/0.0300	Pass	Propoxur	Any amt	ND	0.00780/0.0300	Pass
Coumaphos	Any amt	ND	0.00393/0.0300	Pass	Pyrethrins	0.5	ND	0.00278/0.0300	Pass
Daminozide	Any amt	ND	0.0176/0.0534	Pass	Pyrethrins Cinerin I		ND		N/A
Diazinon	0.1	ND	0.00475/0.0300	Pass	Pyrethrins Cinerin II		ND		N/A
Dichlorvos	Any amt	ND	0.0182/0.0550	Pass	Pyrethrins Jasmolin I		ND		N/A
Dimethoate	Any amt	ND	0.00592/0.0300	Pass	Pyrethrins Jasmolin II		ND		N/A
Dimethomorph	2	ND	0.00454/0.0300	Pass	Pyrethrins Pyrethrin I		ND	0.0100/0.0450	N/A
Ethoprophos	Any amt	ND	0.00610/0.0300	Pass	Pyrethrins Pyrethrin II		ND	0.0100/0.0300	N/A
Etofenprox	Any amt	ND	0.00437/0.0300	Pass	Pyridaben	0.1	ND	0.00231/0.0300	Pass
Etoxazole	0.1	ND	0.00365/0.0300	Pass	Spinetoram	0.1	ND	0.00119/0.0300	Pass
Fenhexamid	0.1	ND	0.0113/0.0342	Pass	Spinetoram J		ND	0.00500/0.0100	N/A
Fenoxycarb	Any amt	ND	0.00415/0.0300	Pass	Spinetoram L		ND	0.00500/0.0100	N/A
Fenpyroximate	0.1	ND	0.00396/0.0300	Pass	Spinosad	0.1	ND	0.000830/0.0300	Pass
Fipronil	Any amt	ND	0.0165/0.0500	Pass	Spinosad A		ND	0.00500/0.0100	N/A
Flonicamid	0.1	ND	0.0115/0.0350	Pass	Spinosad D		ND	0.00500/0.0100	N/A
Fludioxonil	0.1	ND	0.0119/0.0362	Pass	Spiromesifen	0.1	ND	0.00894/0.0300	Pass
Hexythiazox	0.1	ND	0.00124/0.0300	Pass	Spirotetramat	0.1	ND	0.00808/0.0300	Pass
Imazalil	Any amt	ND	0.00898/0.0300	Pass	Spiroxamine	Any amt	ND	0.00555/0.0300	Pass
Imidacloprid	5	ND	0.0109/0.0331	Pass	Tebuconazole	0.1	ND	0.00605/0.0300	Pass
Kresoxim-methyl	0.1	ND	0.00708/0.0300	Pass	Thiacloprid	Any amt	ND	0.00506/0.0300	Pass
Malathion	0.5	ND	0.00313/0.0300	Pass	Thiamethoxam	5	ND	0.00760/0.0300	Pass
Metalaxyl	2	ND	0.00467/0.0300	Pass	Trifloxystrobin	0.1	ND	0.00293/0.0300	Pass



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