

Certificate of Analysis

Produced: Sep 29, 2025

Sample: THC-Free Broad Spectrum Select CBD Distillate (Distillate) • **Client:** Red Mesa Science and Refining • **Batch:** Pass



Batch No.: R250919MS77
Matrix: Distillate
Sample ID: ICC-250925-24-001
Collected on: Sep 25, 2025
Received on: Sep 25, 2025
Sample Size: 15 g

Batch Result: Pass

Potency	Tested
Solvents	Pass
Metals	Tested
Mycotoxins	Tested
Pesticides	Tested

Cannabinoid Overview

Total THC:	0.000 %
Total CBD:	86.3 %
Total Cannabinoids:	90.0 %
Sum of Cannabinoids:	90.0 %



Cannabinoids

Analyte	Amt (%)	Amt (mg/g)	LOD/LOQ (mg/g)	Pass/Fail	Analyte	Amt (%)	Amt (mg/g)	LOD/LOQ (mg/g)	Pass/Fail
9R-HHC ²	ND	ND	0.0255/0.818	N/A	CBNA ¹	ND	ND	0.144/0.433	N/A
9S-HHC ²	ND	ND	0.0434/0.842	N/A	CBT ¹	ND	ND	0.121/0.425	N/A
CBC ¹	ND	ND	0.280/0.840	N/A	Δ ⁸ -THC ¹	ND	ND	0.0687/0.425	N/A
CBCA ¹	ND	ND	0.393/1.18	N/A	Δ ⁸ -THC-O-acetate ²	ND	ND	0.0315/0.923	N/A
CBCV ¹	ND	ND	0.121/0.425	N/A	Δ ⁸ -THCP ²	ND	ND	0.0705/0.937	N/A
CBD ¹	86.3	863	0.0856/0.425	N/A	Δ ⁸ -THCV ²	ND	ND	0.0179/0.928	N/A
CBDA ¹	ND	ND	0.205/0.614	N/A	Δ ⁹ -THC ¹	ND	ND	0.113/0.425	N/A
CBDB ²	0.250	2.50	0.0384/0.958	N/A	Δ ⁹ -THC-O-acetate ²	ND	ND	0.0290/0.930	N/A
CBDP ²	ND	ND	0.0334/0.956	N/A	Δ ⁹ -THCP ²	ND	ND	0.0498/0.946	N/A
CBDV ¹	0.503	5.03	0.0679/0.425	N/A	HHC-O-acetate ²	ND	ND	0.0525/0.859	N/A
CBDVA ¹	ND	ND	0.223/0.667	N/A	THCA ¹	ND	ND	0.156/0.467	N/A
CBE ²	0.911	9.11	0.0455/0.961	N/A	THCV ¹	ND	ND	0.0524/0.425	N/A
CBG ¹	1.83	18.3	0.0967/0.425	N/A	THCVA ¹	ND	ND	0.169/0.509	N/A
CBGA ¹	ND	ND	0.151/0.453	N/A	THD ²	ND	ND	0.0332/0.891	N/A
CBL ¹	ND	ND	0.0668/0.425	N/A	Total CBD ^{1**}	86.3	863		N/A
CBLA ¹	ND	ND	0.928/2.78	N/A	Total THC ^{1**}	ND	ND		N/A
CBN ¹	0.230	2.30	0.0967/0.425	N/A	Total Cannabinoids ^{**}	90.0	900		N/A

¹ POT-INST-005, POT-PREP-001: POT-INST-005, POT-PREP-001: Expanded Potency // Sep 29, 2025

² POT-INST-005, POT-PREP-001: POT-INST-005, POT-PREP-001: Comprehensive Cannabinoids // Sep 29, 2025

** Total Cannabinoids = Neutral Cannabinoids + (Acidic Cannabinoids * 0.877)

** Total THC = Delta-9-THC + (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 26, 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	0.168/0.511	Pass	Hexane	290	ND	0.0663/0.282	Pass
Acetone	5000	ND	17.2/51.5	Pass	Isopropyl alcohol	5000	ND	1.29/3.86	Pass
Acetonitrile	410	ND	0.121/0.361	Pass	Methanol	3000	ND	2.99/8.96	Pass
Benzene	1	ND	0.0211/0.0642	Pass	Methylene chloride	1	ND	0.128/0.732	Pass
Butane	5000	ND	0.976/4.87	Pass	Pentane	5000	ND	0.967/4.29	Pass
Chloroform	1	ND	0.0362/0.109	Pass	Propane	5000	ND	4.45/13.4	Pass
Ethanol	5000	ND	2.63/7.88	Pass	Toluene	890	ND	0.0884/0.868	Pass
Ethyl acetate	5000	ND	0.314/2.30	Pass	Trichloroethylene	1	ND	0.0181/0.146	Pass
Ethylene oxide	1	ND	0.154/0.582	Pass	o-Xylene	ND	ND	0.101/0.861	N/A
Ethyl ether	5000	ND	1.19/3.56	Pass	p- and m-Xylene	ND	ND	0.116/1.72	N/A
Heptane	5000	ND	0.690/2.87	Pass	Total xylenes	2170	ND		Pass

HM-INST-003, HM-PREP-001: HM-INST-003, HM-PREP-001: Heavy Metals Testing by ICP-MS • Sep 26, 2025

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

PESTMICO-LC-INST-004, PESTMICO-LC-PREP-001: PESTMICO-LC-INST-004, PESTMICO-LC-PREP-001: Mycotoxin Analysis by LC-MS/MS • Sep 29, 2025

Analyte	Limit	Amt (µg/kg)	LOD/LOQ (µg/kg)	Pass/Fail	Analyte	Limit	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	Ochratoxin A		ND	4.41/13.4	N/A
Aflatoxin G1		ND	1.73/5.25	N/A					

PEST-GC-INST-003, PEST-GC-PREP-001: PEST-GC-INST-003, PEST-GC-PREP-001: Pesticide Analysis by GC-MS/MS • Sep 29, 2025

Analyte	Limit	Amt (µg/g)	LOD/LOQ (µg/g)	Pass/Fail	Analyte	Limit	Amt (µg/g)	LOD/LOQ (µg/g)	Pass/Fail
Captan		ND	0.120/0.358	N/A	Cypermethrin		ND	0.0602/0.181	N/A
Chlordane		ND	0.0249/0.0747	N/A	Methyl parathion		ND	0.00811/0.0243	N/A
Cyfluthrin		ND	0.0186/0.0558	N/A	Pentachloronitrobenzene		ND	0.0182/0.0545	N/A
Chlorfenapyr		ND	0.0251/0.0753	N/A					



PESTMYCO-LC-INST-004, PESTMYCO-LC-PREP-001: PESTMYCO-LC-INST-004, PESTMYCO-LC-PREP-001: Pesticide Analysis by LC-MS/MS • Sep 29, 2025

Analyte	Limit	Amt (µg/g)	LOD/LOQ (µg/g)	Pass/Fail	Analyte	Limit	Amt (µg/g)	LOD/LOQ (µg/g)	Pass/Fail
Naled		ND	0.00849/0.0300	N/A	Fludioxonil		ND	0.0119/0.0362	N/A
Oxamyl		ND	0.00746/0.0300	N/A	Hexythiazox		ND	0.00124/0.0300	N/A
Phosmet		ND	0.00511/0.0300	N/A	Prallethrin		ND	0.0235/0.0711	N/A
Acephate		ND	0.00743/0.0300	N/A	Spiroxamine		ND	0.00555/0.0300	N/A
Aldicarb		ND	0.00838/0.0300	N/A	Thiacloprid		ND	0.00506/0.0300	N/A
Boscalid		ND	0.00809/0.0300	N/A	Abamectin Ba		ND	0.0330/0.0990	N/A
Carbaryl		ND	0.00604/0.0300	N/A	Azoxystrobin		ND	0.00530/0.0300	N/A
Diazinon		ND	0.00475/0.0300	N/A	Chlorpyrifos		ND	0.0152/0.0460	N/A
Fipronil		ND	0.0165/0.0500	N/A	Clofentezine		ND	0.00206/0.0300	N/A
Imazalil		ND	0.00898/0.0300	N/A	Dimethomorph		ND	0.00454/0.0300	N/A
Methomyl		ND	0.00879/0.0300	N/A	Imidacloprid		ND	0.0109/0.0331	N/A
Propoxur		ND	0.00780/0.0300	N/A	Myclobutanil		ND	0.00707/0.0300	N/A
Coumaphos		ND	0.00393/0.0300	N/A	Spinetoram J		ND	0.00500/0.0100	N/A
Etoxazole		ND	0.00365/0.0300	N/A	Spinetoram L		ND	0.00500/0.0100	N/A
Malathion		ND	0.00313/0.0300	N/A	Spiromesifen		ND	0.00894/0.0300	N/A
Metalaxyl		< LOQ	0.00467/0.0300	N/A	Tebuconazole		ND	0.00605/0.0300	N/A
Mevinphos		ND	0.00772/0.0300	N/A	Thiamethoxam		ND	0.00760/0.0300	N/A
Pyridaben		ND	0.00231/0.0300	N/A	Fenpyroximate		ND	0.00396/0.0300	N/A
Bifenazate		ND	0.00706/0.0300	N/A	Paclbutrazol		ND	0.00851/0.0300	N/A
Bifenthrin		ND	0.00439/0.0300	N/A	Propiconazole		ND	0.00909/0.0300	N/A
Carbofuran		ND	0.00538/0.0300	N/A	Spirotetramat		ND	0.00808/0.0300	N/A
Daminozide		ND	0.0176/0.0534	N/A	Permethrin cis		ND	0.0200/0.0300	N/A
Dichlorvos		ND	0.0182/0.0550	N/A	Kresoxim-methyl		ND	0.00708/0.0300	N/A
Dimethoate		ND	0.00592/0.0300	N/A	Trifloxystrobin		ND	0.00293/0.0300	N/A
Etofenprox		ND	0.00437/0.0300	N/A	Permethrin trans		ND	0.0200/0.0300	N/A
Fenhexamid		ND	0.0113/0.0342	N/A	Piperonylbutoxide		ND	0.00267/0.0300	N/A
Fenoxycarb		ND	0.00415/0.0300	N/A	Chlorantraniliprole		ND	0.00883/0.0300	N/A
Fonicamid		ND	0.0115/0.0350	N/A	Pyrethrins Cinerin I		ND		N/A
Methiocarb		ND	0.00245/0.0300	N/A	Pyrethrins Cinerin II		ND		N/A
Spinosad A		ND	0.00500/0.0100	N/A	Pyrethrins Jasmolin I		ND		N/A
Spinosad D		ND	0.00500/0.0100	N/A	Pyrethrins Jasmolin II		ND		N/A
Acequinocyl		ND	0.0150/0.0456	N/A	Pyrethrins Pyrethrin I		ND	0.0100/0.0450	N/A
Acetamiprid		< LOQ	0.00496/0.0300	N/A	Pyrethrins Pyrethrin II		ND	0.0100/0.0300	N/A
Ethoprofos		ND	0.00610/0.0300	N/A					

