

## Certificate of Analysis

Produced: Sep 19, 2025

**Sample:** Full Spectrum CBD Distillate - Compliant (Distillate) • **Client:** Red Mesa Science and Refining • **Batch:** Pass



**Batch No.:** R250915MS124  
**Matrix:** Distillate  
**Sample ID:** ICC-250918-02-001  
**Collected on:** Sep 18, 2025  
**Received on:** Sep 18, 2025  
**Sample Size:** 20 g

**Batch Result:** Pass

<b>Potency</b>	Tested
<b>Solvents</b>	Pass
<b>Metals</b>	Pass
<b>Mycotoxins</b>	Pass
<b>Pesticides</b>	Pass

### Cannabinoid Overview

<b>Total THC:</b>	<b>0.254 %</b>
<b>Total CBD:</b>	<b>83.1 %</b>
<b>Total Cannabinoids:</b>	<b>92.1 %</b>
<b>Sum of Cannabinoids:</b>	<b>92.1 %</b>



# 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 <sup>1</sup>	ND	ND	0.0241/0.771	N/A	CBNA <sup>2</sup>	ND	ND	0.136/0.408	N/A
9S-HHC <sup>1</sup>	ND	ND	0.0410/0.794	N/A	CBT <sup>2</sup>	2.23	22.3	0.115/0.400	N/A
CBC <sup>2</sup>	0.499	4.99	0.264/0.792	N/A	Δ <sup>8</sup> -THC <sup>2</sup>	ND	ND	0.0648/0.400	N/A
CBCA <sup>2</sup>	ND	ND	0.371/1.11	N/A	Δ <sup>8</sup> -THC-O-acetate <sup>1</sup>	ND	ND	0.0297/0.870	N/A
CBCV <sup>2</sup>	ND	ND	0.115/0.400	N/A	Δ <sup>8</sup> -THCP <sup>1</sup>	ND	ND	0.0665/0.883	N/A
CBD <sup>2</sup>	83.1	831	0.0808/0.400	N/A	Δ <sup>8</sup> -THCV <sup>1</sup>	ND	ND	0.0169/0.875	N/A
CBDA <sup>2</sup>	ND	ND	0.193/0.579	N/A	Δ <sup>9</sup> -THC <sup>2</sup>	0.254	2.54	0.107/0.400	N/A
CBDB <sup>1</sup>	0.221	2.21	0.0362/0.904	N/A	Δ <sup>9</sup> -THC-O-acetate <sup>1</sup>	ND	ND	0.0273/0.877	N/A
CBDP <sup>1</sup>	ND	ND	0.0315/0.901	N/A	Δ <sup>9</sup> -THCP <sup>1</sup>	ND	ND	0.0469/0.892	N/A
CBDV <sup>2</sup>	0.778	7.78	0.0641/0.400	N/A	HHC-O-acetate <sup>1</sup>	ND	ND	0.0495/0.810	N/A
CBDVA <sup>2</sup>	ND	ND	0.210/0.629	N/A	THCA <sup>2</sup>	ND	ND	0.147/0.441	N/A
CBE <sup>1</sup>	3.06	30.6	0.0429/0.906	N/A	THCV <sup>2</sup>	ND	ND	0.0494/0.400	N/A
CBG <sup>2</sup>	1.26	12.6	0.0912/0.400	N/A	THCVA <sup>2</sup>	ND	ND	0.160/0.480	N/A
CBGA <sup>2</sup>	ND	ND	0.142/0.428	N/A	THD <sup>1</sup>	ND	ND	0.0313/0.840	N/A
CBL <sup>2</sup>	0.0650	0.650	0.0630/0.400	N/A	Total CBD <sup>2**</sup>	83.1	831		N/A
CBLA <sup>2</sup>	ND	ND	0.875/2.62	N/A	Total THC <sup>2**</sup>	0.254	2.54		N/A
CBN <sup>2</sup>	0.678	6.78	0.0912/0.400	N/A	Total Cannabinoids <sup>**</sup>	92.1	921		N/A

<sup>1</sup> POT-INST-005, POT-PREP-001: POT-INST-005, POT-PREP-001: Comprehensive Cannabinoids // Sep 19, 2025

<sup>2</sup> POT-INST-005, POT-PREP-001: POT-INST-005, POT-PREP-001: Expanded Potency // Sep 19, 2025

\*\* 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 19, 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	ND	0.0664/0.283	Pass
Acetone	5000	ND	17.2/51.5	Pass	Isopropyl alcohol	5000	120	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	0.128/0.733	Pass
Butane	5000	ND	0.976/4.88	Pass	Pentane	5000	ND	0.967/4.29	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	< LOQ	0.0885/0.869	Pass
Ethyl acetate	5000	ND	0.315/2.30	Pass	Trichloroethylene	1	ND	0.0181/0.146	Pass
Ethylene oxide	1	ND	0.154/0.582	Pass	o-Xylene		ND	0.101/0.862	N/A
Ethyl ether	5000	ND	1.19/3.57	Pass	p- and m-Xylene		ND	0.116/1.72	N/A
Heptane	5000	ND	0.691/2.88	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 18, 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	< LOQ	0.00300/0.00900	Pass	Lead	0.5	ND	0.00100/0.00400	Pass
Cadmium	0.2	ND	0.00100/0.00200	Pass	Mercury	0.1	ND	0.00500/0.0140	Pass

## PESTMICO-LC-INST-004, PESTMICO-LC-PREP-001: PESTMICO-LC-INST-004, PESTMICO-LC-PREP-001: Mycotoxin Analysis by LC-MS/MS • Sep 19, 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 19, 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 19, 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	< LOQ	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

