



# Certificate of Analysis

ICAL ID: 20220404-013  
Sample: CA220404-007-013  
CBD Isolate  
Strain: CBD Isolate  
Category: Concentrates & Extracts

Red Mesa Science and Refining  
Lic. #  
4443 E Commerce Dr  
Saint George, UT 84790  
Lic. #

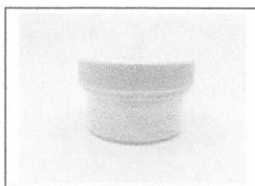
# QA SAMPLE - INFORMATIONAL ONLY

Batch#: R220316RS01  
Batch Size Collected:  
Total Batch Size:  
Collected: 04/06/2022; Received: 04/06/2022  
Completed: 04/06/2022

1 of 3

Moisture	Total THC	Total CBD	Total Cannabinoids	Total Terpenes
NT	ND	99.17%	99.39%	NT
Water Activity				
NT				

Summary	SOP Used	Date Tested	Pass
Batch			Complete
Cannabinoids	POT-PREP-001 High	04/04/2022	Pass
Residual Solvents	RS-PREP-001	04/04/2022	Pass
Microbials	MICRO-PREP-001	04/06/2022	Pass
Mycotoxins	PESTMICO-LC-PREP-001	04/04/2022	Pass
Heavy Metals	HM-PREP-001	04/05/2022	Pass
Foreign Matter	FM-PREP-001	04/04/2022	Pass
Pesticides	PESTMICO-LC-PREP-001/ PEST-GC-PREP-001	04/04/2022	Pass



Scan to see results

## Cannabinoid Profile

Analyte	LOQ (mg/g)	LOD (mg/g)	%	mg/g	Analyte	LOQ (mg/g)	LOD (mg/g)	%	mg/g
THCa	0.5060	0.1271	ND	ND	CBDV	0.5060	0.0579	0.22	2.2
Δ9-THC	0.5060	0.1408	ND	ND	CBN	0.5060	0.1073	ND	ND
Δ8-THC	0.5060	0.0695	ND	ND	CBGa	0.5452	0.1817	ND	ND
THCV	0.5060	0.0582	ND	ND	CBG	0.5390	0.1797	ND	ND
CBDa	0.5060	0.1307	ND	ND	CBC	0.6255	0.2085	ND	ND
CBD	0.5060	0.1121	99.17	991.7	Total THC			ND	ND
					Total CBD			99.17	991.70
					Total			99.39	993.93

Total THC=THCa \* 0.877 + Δ9-THC; Total CBD = CBDa \* 0.877 + CBD. LOD= Limit of Detection, LOQ= Limit of Quantitation, ND= Not Detected, NR= Not Reported. Potency is reported on a dry weight basis. Instrumentation and analysis SOPs used: Cannabinoids:UHPLC-DAD(POT-INST-005), Moisture:Moisture Analyzer(MOISTURE-001), Water Activity:Water Activity Meter(WA-INST-002), Foreign Material:Microscope(FOREIGN-001), Density measured at 19-24 °C, Water Activity measured at 0-90% RH. All QA submitted by the client. All CA State Compliance sampled using SMPLE-SOP-001.

## Terpene Profile

Analyte	LOQ (mg/g)	LOD (mg/g)	%	mg/g	Analyte	LOQ (mg/g)	LOD (mg/g)	%	mg/g
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NR= Not Reported (no analysis was performed), ND= Not Detected (the concentration is less than the Limit of Detection (LOD)). Analytical instrumentation used: HS-GC-MS; samples analyzed according to SOP TERP-INST-003.

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*Josh M Swider*  
Josh Swider  
Lab Director, Managing Partner  
04/06/2022

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This product has been tested by Infinite Chemical Analysis, LLC using valid testing methodologies and a quality system as required by state law. All LQC samples were performed and met the prescribed acceptance criteria in 16 CCR section 15730, pursuant to 16 CCR section 15726(e)(13). Values reported relate only to the product tested. Infinite Chemical Analysis, LLC makes no claims as to the efficacy, safety or other risks associated with any detected or non-detected levels of any compounds reported herein. This Certificate shall not be reproduced except in full, without the written approval of Infinite Chemical Analysis, LLC.



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## Residual Solvent Analysis

Category 1	LOQ	LOD	Limit	Status	Category 2	LOQ	LOD	Limit	Status	Category 2	LOQ	LOD	Limit	Status			
1,2-Dichloro-Ethane	ND	0.509	0.17	1	Pass	Acetone	ND	51.246	17.082	5000	Pass	n-Hexane	ND	3.2807	0.0659	290	Pass
Benzene	ND	0.064	0.021	1	Pass	Acetonitrile	ND	0.359	0.12	410	Pass	Isopropanol	ND	3.8401	1.28	5000	Pass
Chloroform	ND	0.108	0.036	1	Pass	Butane	ND	4.849	0.971	5000	Pass	Methanol	ND	8.917	2.972	3000	Pass
Ethylene Oxide	ND	0.579	0.153	1	Pass	Ethanol	ND	7.843	2.614	5000	Pass	Pentane	423.1	4.271	0.962	5000	Pass
Methylene-Chloride	ND	0.7288	0.1267	1	Pass	Ethyl-Acetate	ND	2.288	0.313	5000	Pass	Propane	ND	3.302	4.434	5000	Pass
Trichloroethene	ND	0.145	0.018	1	Pass	Ethyl-Ether	ND	3.548	1.183	5000	Pass	Toluene	ND	0.864	0.088	890	Pass
						Heptane	ND	2.859	0.687	5000	Pass	Xylenes	ND	2.572	0.216	170	Pass

NR= Not Reported (no analysis was performed), ND= Not Detected (the concentration is less than the Limit of Detection (LOD)). Analytical instrumentation used: HS-GC-MS; samples analyzed according to SOP RS-INST-003.

## Heavy Metal Screening

	LOQ	LOD	Limit	Status	
Arsenic	ND	0.009	0.003	0.2	Pass
Cadmium	ND	0.002	0.001	0.2	Pass
Lead	0.005	0.004	0.001	0.5	Pass
Mercury	ND	0.014	0.005	0.1	Pass

NR= Not Reported (no analysis was performed), ND= Not Detected (the concentration is less than the Limit of Detection (LOD)). Analytical instrumentation used: ICP-MS; samples analyzed according to SOP HM-INST-003.

## Microbiological Screening

	Limit	Result	Status
	CFU/g	CFU/g	
Aspergillus flavus		Not Detected	Pass
Aspergillus fumigatus		Not Detected	Pass
Aspergillus niger		Not Detected	Pass
Aspergillus terreus		Not Detected	Pass
STEC		Not Detected	Pass
Salmonella SPP		Not Detected	Pass

ND= Not Detected. Analytical instrumentation used: qPCR; samples analyzed according to SOP MICRO-INST-001.

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### Chemical Residue Screening

Category 1	LOQ	LOD	Status	Mycotoxins	LOQ	LOD	Limit	Status		
	µg/g	µg/g	µg/g		µg/kg	µg/kg	µg/kg	µg/kg		
Aldicarb	ND	0.030	0.008	Pass	B1	ND	8.98	2.96	Tested	
Carbofuran	ND	0.030	0.005	Pass	B2	ND	10.17	3.36	Tested	
Chlordane	ND	0.075	0.025	Pass	G1	ND	5.25	1.73	Tested	
Chlorfenapyr	ND	0.075	0.025	Pass	G2	ND	6.26	2.07	Tested	
Chlorpyrifos	ND	0.046	0.015	Pass	Ochratoxin A	ND	13.37	4.41	20	Pass
Coumaphos	ND	0.030	0.004	Pass	Total Aflatoxins	ND		20	Pass	
Daminozide	ND	0.053	0.018	Pass						
Dichlorvos	ND	0.055	0.018	Pass						
Dimethoate	ND	0.030	0.006	Pass						
Ethoprophos	ND	0.030	0.006	Pass						
Etofenprox	ND	0.030	0.004	Pass						
Fenoxycarb	ND	0.030	0.004	Pass						
Fipronil	ND	0.050	0.017	Pass						
Imazalil	ND	0.030	0.009	Pass						
Methiocarb	ND	0.030	0.002	Pass						
Mevinphos	ND	0.030	0.008	Pass						
Pacllobutrazol	ND	0.030	0.009	Pass						
Parathion Methyl	ND	0.024	0.008	Pass						
Propoxur	ND	0.030	0.008	Pass						
Spiroxamine	ND	0.030	0.006	Pass						
Thiacloprid	ND	0.030	0.005	Pass						

Category 2	LOQ	LOD	Limit	Status	Category 2	LOQ	LOD	Limit	Status		
	µg/g	µg/g	µg/g	µg/g		µg/g	µg/g	µg/g	µg/g		
Abamectin	ND	0.099	0.033	0.1	Pass	Kresoxim Methyl	ND	0.030	0.007	0.1	Pass
Acephate	ND	0.030	0.007	0.1	Pass	Malathion	ND	0.030	0.003	0.5	Pass
Acequinocyl	ND	0.046	0.015	0.1	Pass	Metalaxyl	ND	0.030	0.005	2	Pass
Acetamiprid	ND	0.030	0.005	0.1	Pass	Methomyl	ND	0.030	0.009	1	Pass
Azoxystrobin	ND	0.030	0.005	0.1	Pass	Myclobutanil	ND	0.030	0.007	0.1	Pass
Bifenazate	ND	0.030	0.007	0.1	Pass	Naled	ND	0.030	0.008	0.1	Pass
Bifenthrin	ND	0.030	0.004	3	Pass	Oxamyl	ND	0.030	0.007	0.5	Pass
Boscalid	ND	0.030	0.008	0.1	Pass	Pentachloronitrobenzene	ND	0.054	0.018	0.1	Pass
Captan	ND	0.358	0.120	0.7	Pass	Permethrin	ND	0.030	0.002	0.5	Pass
Carbaryl	ND	0.030	0.006	0.5	Pass	Phosmet	ND	0.030	0.005	0.1	Pass
Chlorantraniliprole	ND	0.030	0.009	10	Pass	Piperonyl Butoxide	ND	0.030	0.003	3	Pass
Clofentezine	ND	0.030	0.002	0.1	Pass	Prallethrin	ND	0.071	0.023	0.1	Pass
Cyfluthrin	ND	0.056	0.019	2	Pass	Propiconazole	ND	0.030	0.009	0.1	Pass
Cypermethrin	ND	0.181	0.060	1	Pass	Pyrethrins	ND	0.030	0.003	0.5	Pass
Diazinon	ND	0.030	0.005	0.1	Pass	Pyridaben	ND	0.030	0.002	0.1	Pass
Dimethomorph	ND	0.030	0.005	2	Pass	Spinetoram	ND	0.030	0.001	0.1	Pass
Etoxazole	ND	0.030	0.004	0.1	Pass	Spinosad	ND	0.030	0.001	0.1	Pass
Fenhexamid	ND	0.034	0.011	0.1	Pass	Spiromesifen	ND	0.030	0.009	0.1	Pass
Fenpyroximate	ND	0.030	0.004	0.1	Pass	Spirotetramat	ND	0.030	0.008	0.1	Pass
Flonicamid	ND	0.035	0.012	0.1	Pass	Tebuconazole	ND	0.030	0.006	0.1	Pass
Fludioxonil	ND	0.036	0.012	0.1	Pass	Thiamethoxam	ND	0.030	0.008	5	Pass
Hexythiazox	ND	0.030	0.001	0.1	Pass	Trifloxystrobin	ND	0.030	0.003	0.1	Pass
Imidacloprid	ND	0.033	0.011	5	Pass						

### Other Analyte(s):

NR= Not Reported (no analysis was performed), ND= Not Detected (the concentration is less than the Limit of Detection (LOD)). Analytical instrumentation used: LC-MS-MS & GC-MS-MS; samples analyzed according to SOPs PESTMYCO-LC-INST-004 and PEST-GC-INST-003.



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Red Mesa Science

Sample #: 20220404-013 Batch #: R220316RS01

Ordered: 04/04/2022; Sampled: 04/05/2022; Completed: 4/11/2022

Sample Name: CBD Isolate

### Microbiological Screening

Plate Count/SOP: MB-001

Analyte	Count	Client Limit*	LOQ <sup>1</sup>	Status <sup>2</sup>
APC	<LOQ	10000	10	Pass
Coliforms	<LOQ	NR	10	NR
<i>E. coli</i>	<LOQ	NR	10	NR
Yeast & Mold	<LOQ	NR	10	NR
Enterobacteriaceae	NT	NR	10	NR

Count, Client Limit, and LOQ all reported in CFU/g.

\*Client limit is self-selected and will be replaced by official CA state limits when they become available.

<sup>1</sup>LOQ = Limit of quantification

<sup>2</sup>Status of Pass/Fail based on client limit selected.

NR = Not reported NT = No test completed

### pH Test

Acidic/Alkaline SOP: PH-001

PH: NT



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*Josh M Swider*

**Lab Director**

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