



# Certificate of Analysis

QA SAMPLE - INFORMATIONAL ONLY

1 of 3

ICAL ID: 20230927-005  
Sample:  
Crystal Resistant CBG Distillate  
Strain: Crystal Resistant CBG Distillate  
Category: Concentrates & Extracts  
Type: Distillate

Batch#: \_\_\_\_\_  
Batch Size Collected:  
Total Batch Size:  
Collected: 09/29/2023; Received: 09/29/2023  
Completed: 09/29/2023

Moisture <b>NT</b> Water Activity <b>NT</b>	Total THC <b>0.05%</b>	Total CBD <b>3.05%</b>	Total Cannabinoids <b>42.71%</b>	Total Terpenes <b>NT</b>
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## Summary

Summary	SOP Used	Date Tested	
Batch			Pass
Cannabinoids	POT-PREP-001	09/27/2023	Complete
Residual Solvents	RS-PREP-001	09/29/2023	Complete
Mycotoxins	PESTMICO-LC-PREP-001	09/28/2023	Pass
Heavy Metals	HM-PREP-001	09/27/2023	Pass
Foreign Matter	FM-PREP-001	09/27/2023	Pass
Pesticides	PESTMICO-LC-PREP-001 / PEST-GC-PREP-001	09/27/2023	Pass



## Cannabinoid Profile

Analyte	LOQ (mg/g)	LOD (mg/g)	%	mg/g	Analyte	LOQ (mg/g)	LOD (mg/g)	%	mg/g
THCa	0.3680	0.0924	ND	ND	CBE	0.9109	0.0443	ND	ND
Δ9-THC	0.3680	0.1024	0.05	0.5	CBGa	0.3965	0.1322	ND	ND
Δ8-THC	0.3680	0.0506	ND	ND	CBG	0.3920	0.1307	21.26	212.6
THCVa	0.4587	0.1529	ND	ND	CBLa	3.1232	1.0411	ND	ND
THCV	0.3680	0.0423	ND	ND	CBL	0.3680	0.1106	0.50	5.0
Δ8-THCV	0.8800	0.0174	ND	ND	CBNa	0.3731	0.1244	ND	ND
CBDa	0.3680	0.0951	ND	ND	CBN	0.3680	0.0780	0.20	2.0
CBD	0.3680	0.0815	3.05	30.5	CBT	0.3680	0.0906	13.05	130.5
CBDVa	0.3680	0.1063	ND	ND	9R-HHC	0.7752	0.0248	ND	ND
CBDV	0.3680	0.0421	0.67	6.7	9S-HHC	0.7983	0.0420	ND	ND
CBDB	0.9086	0.0378	ND	ND	Δ9-THC Acetate	0.8814	0.0263	ND	ND
CBDp	0.9061	0.0321	ND	ND	Δ8-THC Acetate	0.8749	0.0303	ND	ND
CBCa	0.5083	0.1694	ND	ND	HHC-O Acetate	0.8145	0.0500	ND	ND
CBC	0.4549	0.1516	3.84	38.4	THD	0.8444	0.0298	ND	ND
CBCV	0.3680	0.0691	0.09	0.9	<b>Total THC</b>			<b>0.05</b>	<b>0.50</b>
					<b>Total CBD</b>			<b>3.05</b>	<b>30.46</b>
					<b>Total</b>			<b>42.71</b>	<b>427.07</b>

Total THC=THCa \* 0.877 + d9-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 SAMPL-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.



Infinite Chemical Analysis Labs  
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*Josh M Swider*

Josh Swider  
Lab Director, Managing Partner  
09/29/2023

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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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Batch#:  
Batch Size Collected:  
Total Batch Size:  
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Completed: 09/29/2023

## Residual Solvent Analysis

Category 1	µg/g	LOQ	LOD	Limit	Status	Category 2	µg/g	LOQ	LOD	Limit	Status
1,2-Dichloro-Ethane	NR	0.509	0.17	1	NT	Acetone	NR	51.246	17.082	5000	NT
Benzene	NR	0.064	0.021	1	NT	Acetonitrile	NR	0.359	0.12	410	NT
Chloroform	NR	0.108	0.036	1	NT	Butane	NR	4.849	0.971	5000	NT
Ethylene Oxide	NR	0.579	0.153	1	NT	Ethanol	NR	7.843	2.614	5000	NT
Methylene-Chloride	NR	0.7288	0.127	1	NT	Ethyl-Acetate	NR	2.288	0.313	5000	NT
Trichloroethene	NR	0.145	0.018	1	NT	Ethyl-Ether	NR	3.548	1.183	5000	NT
						Heptane	NR	2.859	0.687	5000	NT
						n-Hexane	NR	0.2807	0.066	290	NT
						Isopropanol	NR	3.8401	1.28	5000	NT
						Methanol	NR	8.917	2.972	3000	NT
						Pentane	NR	4.271	0.962	5000	NT
						Propane	NR	13.302	4.434	5000	NT
						Toluene	NR	0.864	0.088	890	NT
						Xylenes	NR	2.572	0.216	2170	NT

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

	µg/g	LOQ	LOD	Limit	Status
Arsenic	ND	0.009	0.003	0.2	Pass
Cadmium	ND	0.002	0.001	0.2	Pass
Lead	<LOQ	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
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ND=Not Detected. Analytical instrumentation used:qPCR; samples analyzed according to SOP MICRO-INST-001.



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Batch Size Collected: \_\_\_\_\_  
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## Chemical Residue Screening

Category 1	LOQ	LOD	Status	
	µg/g	µg/g	µg/g	
Aldicarb	ND	0.030	0.008	Pass
Carbofuran	ND	0.030	0.005	Pass
Chlordane	ND	0.075	0.025	Pass
Chlorfenapyr	ND	0.075	0.025	Pass
Chlorpyrifos	ND	0.046	0.015	Pass
Coumaphos	ND	0.030	0.004	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
Paclobutrazol	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

Mycotoxins	LOQ	LOD	Limit	Status	
	µg/kg	µg/kg	µg/kg	µg/kg	
B1	ND	8.98	2.96	Tested	
B2	ND	10.17	3.36	Tested	
G1	ND	5.25	1.73	Tested	
G2	ND	6.26	2.07	Tested	
Ochratoxin A	ND	13.37	4.41	20	Pass
Total Aflatoxins	ND			20	Pass

Category 2	LOQ	LOD	Limit	Status	
	µg/g	µg/g	µg/g	µg/g	
Abamectin	ND	0.099	0.033	0.1	Pass
Acephate	ND	0.030	0.007	0.1	Pass
Acequinocyl	ND	0.046	0.015	0.1	Pass
Acetamiprid	ND	0.030	0.005	0.1	Pass
Azoxystrobin	ND	0.030	0.005	0.1	Pass
Bifenazate	ND	0.030	0.007	0.1	Pass
Bifenthrin	<LOQ	0.030	0.004	3	Pass
Boscalid	ND	0.030	0.008	0.1	Pass
Captan	ND	0.358	0.120	0.7	Pass
Carbaryl	ND	0.030	0.006	0.5	Pass
Chlorantraniliprole	ND	0.030	0.009	10	Pass
Clofentezine	ND	0.030	0.002	0.1	Pass
Cyfluthrin	ND	0.056	0.019	2	Pass
Cypermethrin	ND	0.181	0.060	1	Pass
Diazinon	ND	0.030	0.005	0.1	Pass
Dimethomorph	ND	0.030	0.005	2	Pass
Etoxazole	ND	0.030	0.004	0.1	Pass
Fenhexamid	ND	0.034	0.011	0.1	Pass
Fenpyroximate	ND	0.030	0.004	0.1	Pass
Flonicamid	ND	0.035	0.012	0.1	Pass
Fludioxonil	ND	0.036	0.012	0.1	Pass
Hexythiazox	ND	0.030	0.001	0.1	Pass
Imidacloprid	ND	0.033	0.011	5	Pass

Category 2	LOQ	LOD	Limit	Status	
	µg/g	µg/g	µg/g	µg/g	
Kresoxim Methyl	ND	0.030	0.007	0.1	Pass
Malathion	ND	0.030	0.003	0.5	Pass
Metalaxyl	<LOQ	0.030	0.005	2	Pass
Methomyl	ND	0.030	0.009	1	Pass
Myclobutanil	ND	0.030	0.007	0.1	Pass
Naled	ND	0.030	0.008	0.1	Pass
Oxamyl	ND	0.030	0.007	0.5	Pass
Pentachloronitrobenzene	ND	0.054	0.018	0.1	Pass
Permethrin	ND	0.030	0.002	0.5	Pass
Phosmet	ND	0.030	0.005	0.1	Pass
Piperonyl Butoxide	ND	0.030	0.003	3	Pass
Prallethrin	ND	0.071	0.023	0.1	Pass
Propiconazole	ND	0.030	0.009	0.1	Pass
Pyrethrins	ND	0.030	0.003	0.5	Pass
Pyridaben	ND	0.030	0.002	0.1	Pass
Spinetoram	ND	0.030	0.001	0.1	Pass
Spinosad	ND	0.030	0.001	0.1	Pass
Spiromesifen	ND	0.030	0.009	0.1	Pass
Spirotetramat	ND	0.030	0.008	0.1	Pass
Tebuconazole	ND	0.030	0.006	0.1	Pass
Thiamethoxam	ND	0.030	0.008	5	Pass
Trifloxystrobin	ND	0.030	0.003	0.1	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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## Certificate of Analysis Appendix

### Residual Solvents - Utah Industrial Hemp

Analyte	Result (ug/g)	LOD (ug/g)	LOQ (ug/g)	Action Limit(ug/g)	Status
1,2 Dimethoxyethane	ND	5.9917	17.975	100	Pass
1,4 Dioxane	ND	12.8684	38.6052	380	Pass
1-Butanol	ND	3.1446	9.4337	5,000	Pass
1-Pentanol	ND	9.9794	29.9383	5,000	Pass
1-Propanol	ND	6.9987	20.9962	5,000	Pass
2-Butanol	ND	9.5709	28.7127	5,000	Pass
2-Butanone	ND	7.2129	21.6386	5,000	Pass
2-Ethoxyethanol	ND	3.8723	11.6169	160	Pass
2-methylbutane	ND	0.679	2.037	5,000	Pass
2-methylpentane	ND	9.0715	27.2145	290	Pass
3-methylpentane	ND	7.3795	22.1384	290	Pass
2-Propanol (IPA)	ND	11.5286	34.5857	5,000	Pass
Acetone	ND	8.2267	24.6802	5,000	Pass
Acetonitrile	ND	8.3746	25.1238	410	Pass
Benzene	ND	0.3588	1.0763	2	Pass
Butane	ND	9.552	28.6559	5,000	Pass
Cumene	ND	8.32	24.96	70	Pass
Cyclohexane	ND	8.4235	25.2705	3,880	Pass
Dichloromethane	ND	3.9511	11.8533	600	Pass
2,2-dimethylbutane	ND	0.8804	2.6412	290	Pass
2,3-dimethylbutane	ND	0.9493	2.8479	290	Pass
Dimethyl sulfoxide	ND	8.3992	25.1976	5,000	Pass
Ethanol	ND	4.8156	14.4469	5,000	Pass
Ethyl acetate	ND	14.2542	42.7625	5,000	Pass
Ethyl ether	ND	6.8124	20.4372	5,000	Pass
Ethylene glycol	ND	3.4447	10.334	620	Pass
Ethylene Oxide	ND	6.5244	19.5733	50	Pass
Heptane	ND	0.4144	1.2431	5,000	Pass
Hexane	ND	0.5026	1.5078	290	Pass
Isobutane	ND	10.2495	30.7486	5,000	Pass
Isopropyl acetate	ND	4.1274	12.3823	5,000	Pass
Methanol	ND	18.42	55.26	3,000	Pass
N,N-dimethylacetamide	ND	268.955	806.8649	1,090	Pass
N,N-dimethylformamide	ND	2.7382	8.2147	880	Pass
Pentane	ND	0.8382	2.5146	5,000	Pass
Propane	ND	7.9467	23.8402	5,000	Pass
Pyridine	ND	19.55	58.64	100	Pass
Sulfolane	ND	22.886	68.6581	160	Pass
Tetrahydrofuran	ND	6.2156	18.6469	720	Pass
Toluene	ND	0.4061	1.2184	890	Pass
Total Xylenes	ND	10.3738	31.1216	2,170	Pass

*Josh M Swider*

Josh Swider  
Lab Director, CEO

Crystal Resistant CBG Distillate  
9/29/2023

## Certificate of Analysis



Sample Name	Crystal Resistant CBG Distillate	ICAL ID	20230920-005
Batch		Registering Laboratory	San Diego
Client	Red Mesa Science	Contact	Customer Service Team
Address		Address	8312 Miramar Mall San Diego, CA 92121
Telephone		Telephone	(858) 623-2740
Email		Email	questions@infinitecal.com
Sampler		COA Issue Date	September 25, 2023

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### Definitions

| <: Less Than | >: Greater Than | RP: Result Pending | MPN: Most Probable Number | CFU: Colony Forming Units | ---: Not Requested | NA: Not Applicable | ND: Not Detected | MDL: Method Detection Limit | LCMRL: Lowest Concentration Minimum Reporting Level | NT: Not Tested | ~: Estimated | TBA: To Be Advised | TNTC: Too numerous to count |

### Microbial Plate Panel

Analyte	CFU/g	MDL	Client Limit <sup>1</sup>	Status <sup>2</sup>
Aerobic (APC)	<MDL	10	10,000	PASS
Coliforms	NT	10	---	
<i>E. coli</i>	NT	10	---	
Yeast & Mold	NT	10	---	
<i>Enterobacteriaceae</i>	NT	10	---	
<i>Salmonella spp.</i>	NT	10	---	
<i>Listeria spp.</i>	NT	10	---	

### Analysis Location

All analyses were completed by Infinite Chemical Analysis – San Diego.

### Analysis Comments

Method ID: MICRO-PLATE-001

<sup>1</sup>Client limit is self-selected and will be replaced by official CA state limits when they become available.

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

*Josh M Swider*

Josh Swider  
Lab Director, CEO  
September 25, 2023