



Certificate of Analysis

QA SAMPLE - INFORMATIONAL ONLY

1 of 3

ICAL ID:
Sample: C
CBN Isolate
Strain: CBN Isolate
Category: Concentrates & Extracts
Type: Cannabinoid Isolate

Batch#:
Batch Size Collected:
Total Batch Size:
Collected: 09/26/2023; Received: 09/26/2023
Completed: 09/28/2023

Moisture NT Water Activity NT	Total THC 0.21%	Total CBD ND	Total Cannabinoids 97.69%	Total Terpenes NT
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Summary

SOP Used

Date Tested

Batch	POT-PREP-001 High	09/22/2023	Pass
Cannabinoids	RS-PREP-001	09/25/2023	Complete
Residual Solvents	PESTMYCO-LC-PREP-001	09/22/2023	Pass
Mycotoxins	HM-PREP-001	09/25/2023	Pass
Heavy Metals	FM-PREP-001	09/22/2023	Pass
Foreign Matter	PESTMYCO-LC-PREP-001 /	09/22/2023	Pass
Pesticides	PEST-GC-PREP-001		



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	CBGa	0.5452	0.1817	ND	ND
Δ9-THC	0.5060	0.1408	ND	ND	CBG	0.5390	0.1797	ND	ND
Δ8-THC	0.5060	0.0695	0.21	2.1	CBN	0.5060	0.1073	97.49	974.9
THCV	0.5060	0.0582	ND	ND	Total THC			0.21	2.06
CBDa	0.5060	0.1307	ND	ND	Total CBD			ND	ND
CBD	0.5060	0.1121	ND	ND	Total			97.69	976.92
CBDV	0.5060	0.0579	ND	ND					
CBC	0.6255	0.2085	ND	ND					

Total THC=THCa * 0.877 + d9-THC + d8-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
8312 Miramar Mall
San Diego, CA
(858) 623-2740
www.infiniteCAL.com
Lic# C8-0000047-LIC

Josh M Swider

Josh Swider
Lab Director, Managing Partner
09/28/2023

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support@confidentcannabis.com
(866) 506-5866
www.confidentcannabis.com



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

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Heavy Metal Screening

		LOQ	LOD	Limit	Status
	µg/g	µg/g	µg/g	µg/g	
Arsenic	ND	0.009	0.003	0.2	Pass
Cadmium	ND	0.002	0.001	0.2	Pass
Lead	0.007	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.



Infinite Chemical Analysis Labs
8312 Miramar Mall
San Diego, CA
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Josh M Swider

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Lab Director, Managing Partner
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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						
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						

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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Certificate of Analysis Appendix

Residual Solvents

Analyte			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	30.103	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	<LOQ	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	1552.1857	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

CBN Isolate
9/25/2023

Certificate of Analysis



Sample Name	CBN Isolate	ICAL ID	
Batch		Registering Laboratory	San Diego
Client		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 ¹	Status ²
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

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

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

Josh M Swider

Josh Swider
Lab Director, CEO
September 25, 2023