



THC-Free CBD Nanoemulsion

Sample ID: 2111CRG1641.3898	Produced:	Client
Strain: IO159_CBD	Collected:	5280 Nano Technologies
Matrix: Other	Received: 11/10/2021	Lic. #
Type: Industrial Hemp	Completed: 11/11/2021	105 Turner Ave
Sample Size: 1 units; Batch:	Batch#: IO159_CBD	Berthoud, CO 80513



Summary

Test	Date Tested	Result
Batch	11/11/2021	Complete
Cannabinoids		Complete

Cannabinoids

Complete

ND ND Total THC	2.472% 24.72 mg/g Total CBD	2.472% 24.718 mg/g Total Cannabinoids	2.472% 24.718 mg/g Total Potential Cannabinoids
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Analyte	LOD	LOQ	Result	Result
	mg/g	mg/g	%	mg/g
THCa	0.03	0.04	ND	ND
Δ9-THC	0.03	0.04	ND	ND
Δ8-THC	0.03	0.04	ND	ND
CBDa	0.03	0.04	ND	ND
CBD	0.02	0.04	2.472	24.72
CBDV	0.03	0.04	ND	ND
CBN	0.01	0.04	ND	ND
CBGa	0.03	0.04	ND	ND
CBG	0.02	0.04	ND	ND
CBC	0.03	0.04	ND	ND
Total			2.472	24.72

Notes:
Method: HPLC SOP-420
Total THC = THCa * 0.877 + Δ9-THC; Total CBD = CBDa * 0.877 + CBD
LOQ = Limit of Quantitation; The reported result is based on a sample weight with the applicable moisture content for that sample; Unless otherwise stated all quality control samples performed within specifications established by the Laboratory.

NT Not Tested Moisture Content	NT Not Tested Water Activity	Not Tested Foreign Matter
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Seth Dixon

Seth Dixon, Ph.D.
Lab Director
11/11/2021

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THC-Free CBD Nanoemulsion

Sample ID: 2112CRG1770.4214

Strain: IO159_CBD

Matrix: Other

Type: Other

Sample Size: 1 units; Batch:

Produced:

Collected:

Received: 12/03/2021

Completed: 12/08/2021

Batch#: IO159_CBD

Client

5280 Nano Technologies

Lic. #

105 Turner Ave

Berthoud, CO 80513

Pesticides

Pass

Analyte	LOD	LOQ	Limit	Mass	Status	Analyte	LOD	LOQ	Limit	Mass	Status
	µg/g	µg/g	µg/g	µg/g			µg/g	µg/g	µg/g	µg/g	
Abamectin	0.004	0.031	0.300	ND	Pass	Fludioxonil	0.004	0.031	30.000	ND	Pass
Acephate	0.008	0.031	5.000	ND	Pass	Hexythiazox	0.004	0.031	2.000	ND	Pass
Acequinocyl	0.007	0.031	4.000	ND	Pass	Imazalil	0.010	0.031	0.010	ND	Pass
Acetamiprid	0.004	0.031	5.000	ND	Pass	Imidacloprid	0.005	0.031	3.000	ND	Pass
Aldicarb	0.010	0.031	0.010	ND	Pass	Kresoxim Methyl	0.007	0.031	1.000	ND	Pass
Azoxystrobin	0.006	0.031	40.000	ND	Pass	Malathion	0.009	0.031	5.000	ND	Pass
Bifenazate	0.005	0.031	5.000	ND	Pass	Metalaxyl	0.004	0.031	15.000	ND	Pass
Bifenthrin	0.007	0.031	0.500	ND	Pass	Methiocarb	0.010	0.031	0.010	ND	Pass
Boscalid	0.006	0.031	10.000	ND	Pass	Methomyl	0.006	0.031	0.100	ND	Pass
Captan	0.051	0.063	5.000	ND	Pass	Mevinphos	0.015	0.031	0.015	ND	Pass
Carbaryl	0.003	0.031	0.500	ND	Pass	Myclobutanil	0.007	0.031	9.000	ND	Pass
Carbofuran	0.010	0.031	0.010	ND	Pass	Naled	0.004	0.031	0.500	ND	Pass
Chlorantraniliprole	0.006	0.031	40.000	ND	Pass	Oxamyl	0.004	0.031	0.200	ND	Pass
Chlordane	0.030	0.063	0.030	ND	Pass	Pacllobutrazol	0.010	0.031	0.010	ND	Pass
Chlorfenapyr	0.030	0.063	0.030	ND	Pass	Parathion Methyl	0.030	0.063	0.030	ND	Pass
Chlorpyrifos	0.010	0.031	0.010	ND	Pass	Pentachloronitrobenzene	0.025	0.063	0.200	ND	Pass
Clofentezine	0.013	0.031	0.500	ND	Pass	Permethrin	0.012	0.031	20.000	ND	Pass
Coumaphos	0.010	0.031	0.010	ND	Pass	Phosmet	0.006	0.031	0.200	ND	Pass
Cyfluthrin	0.039	0.063	1.000	ND	Pass	Piperonyl Butoxide	0.005	0.031	8.000	ND	Pass
Cypermethrin	0.036	0.063	1.000	ND	Pass	Prallethrin	0.008	0.031	0.400	ND	Pass
Daminozide	0.030	0.063	0.030	ND	Pass	Propiconazole	0.006	0.031	20.000	ND	Pass
Diazinon	0.004	0.031	0.200	ND	Pass	Propoxur	0.010	0.031	0.010	ND	Pass
Dichlorvos	0.010	0.031	0.010	ND	Pass	Pyrethrins	0.006	0.031	1.000	ND	Pass
Dimethoate	0.010	0.031	0.010	ND	Pass	Pyridaben	0.004	0.031	3.000	ND	Pass
Dimethomorph	0.012	0.031	20.000	ND	Pass	Spinetoram	0.017	0.031	3.000	ND	Pass
Ethoprophos	0.010	0.031	0.010	ND	Pass	Spinosad	0.017	0.031	3.000	ND	Pass
Etofenprox	0.010	0.031	0.010	ND	Pass	Spiromesifen	0.007	0.031	12.000	ND	Pass
Etozazole	0.003	0.031	1.500	ND	Pass	Spirotetramat	0.005	0.031	13.000	ND	Pass
Fenhexamid	0.012	0.031	10.000	ND	Pass	Spiroxamine	0.010	0.031	0.010	ND	Pass
Fenoxycarb	0.010	0.031	0.010	ND	Pass	Tebuconazole	0.006	0.031	2.000	ND	Pass
Fenpyroximate	0.003	0.031	2.000	ND	Pass	Thiacloprid	0.010	0.031	0.010	ND	Pass
Fipronil	0.010	0.031	0.010	ND	Pass	Thiamethoxam	0.006	0.031	4.500	ND	Pass
Fonicamid	0.008	0.031	2.000	ND	Pass	Trifloxystrobin	0.002	0.031	30.000	ND	Pass

Date Tested: 12/07/2021

Method: LC-MS/MS& GC-MS/MS SOP-426. LOQ = Limit of Quantitation; Unless otherwise stated all quality control samples performed within specifications established by the Laboratory.



Seth Dixon

Seth Dixon, Ph.D.
Lab Director
12/08/2021

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



Methods: Foreign Matter Analysis Microscopy SOP-421; Moisture Content MOC63u SOP-422; Water Activity Rotronics Water Activity Probe SOP-428. This product has been tested by California Ag Labs 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 5730, pursuant to 16 CCR section 5726(e)(13). Values reported relate only to the product tested. California Ag Labs 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 California Ag Labs.



THC-Free CBD Nanoemulsion

Sample ID: 2112CRG1770.4214

Strain: IO159_CBD

Matrix: Other

Type: Other

Sample Size: 1 units; Batch:

Produced:

Collected:

Received: 12/03/2021

Completed: 12/08/2021

Batch#: IO159_CBD

Client

5280 Nano Technologies

Lic. #

105 Turner Ave

Berthoud, CO 80513

Residual Solvents

Pass

Analyte	LOD	LOQ	Limit	Mass	Status
	µg/g	µg/g	µg/g	µg/g	
1,2-Dichloro-Ethane	0.225	0.469	1	ND	Pass
Acetone	12.462	46.873	5000	ND	Pass
Acetonitrile	16.464	46.873	410	ND	Pass
Benzene	0.239	0.469	1	ND	Pass
Butane	16.937	46.873	5000	ND	Pass
Chloroform	0.247	0.469	1	ND	Pass
Ethanol	13.762	46.873	5000	ND	Pass
Ethyl-Acetate	12.547	46.873	5000	ND	Pass
Ethyl-Ether	28.899	46.873	5000	ND	Pass
Ethylene Oxide	0.225	0.469	1	ND	Pass
Heptane	11.723	46.873	5000	ND	Pass
Isopropanol	12.209	46.873	5000	ND	Pass
Methanol	22.99	46.873	3000	ND	Pass
Methylene-Chloride	0.258	0.469	1	ND	Pass
n-Hexane	29.171	46.873	290	ND	Pass
Pentane	15.568	46.873	5000	ND	Pass
Propane	17.861	46.873	5000	ND	Pass
Toluene	29.384	46.873	890	ND	Pass
Trichloroethene	0.274	0.469	1	ND	Pass
Xylenes	27.174	46.873	2170	ND	Pass

Date Tested: 12/06/2021

Method: HS-GCMS SOP-429. LOQ = Limit of Quantitation; Unless otherwise stated all quality control samples performed within specifications established by the Laboratory.



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12/08/2021

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California Ag Labs
430 C St
Marysville, CA 95901

(530) 599-9001
/www.calaglabs.com
Lic# C8-0000001-LIC

THC-Free CBD Nanoemulsion

Sample ID: 2112CRG1770.4214
Strain: IO159_CBD
Matrix: Other
Type: Other
Sample Size: 1 units; Batch:

Produced:
Collected:
Received: 12/03/2021
Completed: 12/08/2021
Batch#: IO159_CBD

Client
5280 Nano Technologies
Lic. #
105 Turner Ave
Berthoud, CO 80513

Heavy Metals

Pass

Analyte	LOD	LOQ	Limit	Mass	Status
	µg/g	µg/g	µg/g	µg/g	
Arsenic	0.0637	0.0976565	1.5	ND	Pass
Cadmium	0.06455	0.0976565	0.5	ND	Pass
Lead	0.07025	0.0976565	0.5	ND	Pass
Mercury	0.0756	0.0976565	3	ND	Pass

Date Tested: 12/06/2021

Method: ICP-MS SOP-423. LOQ = Limit of Quantitation; Unless otherwise stated all quality control samples performed within specifications established by the Laboratory.



Seth Dixon, Ph.D.
Lab Director
12/08/2021

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