

Certificate of Analysis

ICAL ID: 20200115-015

Sample: 2001/CA0330.1088 CBD Isolate #010320

Strain: CBD Isolate #010320

Prepared For: CNP Operating LLC 12742 E Caley Ave Suite E Centennial CO 80111 QA SAMPLE - INFORMATIONAL ONLY

4

Batch#: Primary Size: Total/Batch Size: Collected: 01/16/2020; Received: 01/16/2020 Completed: 01/16/2020

Category: Concentrates & Extracts

Manufacturing Date: 1/13/2020
City and State of Origin: Grand Junction, CO

Moisture

Total THC

Total CBD

Total Cannabinoids

Total Terpenes

NT Water Activity NT

ND

99.75%

99.98%

NT

Summary

Batch Cannabinoids SC

Cannabinoids SG Residual Solvents Microbials Pesticides Heavy Metals

SOP Used
SOP:POT-E001-Extract

SOP:Inhalable SOP:qpcrone PEST.002.Extract SOP:HM001

01/15/2020 Pass 01/15/2020 Pass 01/15/2020 Pass 01/15/2020 Pass

Cannabinoid Profile

Analyte		LOQ	LOD	%	mg/g	Analyte	LOQ	LOD	%	mg/g
THCa		0.03	0.02	ND	ND	CBDV	0.03	- 0.02	0.23	2.3
Δ9-THC	1,01	0.03	0.02	ND	ND	CBN	0.03	0.02	ND	ND
Δ8-THC		0.03	0.02	ND	ND	CBGa	0.03	0.02	ND	ND
THCV		0.03	0.02	ND	ND	CBG	0.03	0.02	ND	ND
CBDa		0.03	0.02	ND	ND	CBC	0.03	0.02	ND	ND
CBD		0.03	0.02	99.75	997.5	Total THC			ND	ND
						Total CBD			99.75	997.5
						Total			00 00	ggg o

Total THC=THCa * 0.877 + d9-THC; Total CBD = CBDa * 0.877 + CBD; 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 Material: Microscope'

Terpene Profile

Analyte LOQ LOD % mg/g Analyte LOQ LOD % mg/g

NR= Not Reported thus no analysis was performed, ND= Not Detected thus the concentration is less then the Limit of Quantification (LOQ), 'analytical instrumentation used: HS-GC-MS'



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Josh M Swider

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01/16/2020



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ICAL ID: 20200115-015 Sample: 2001ICA0330.1088 CBD Isolate #010320 Strain: CBD Isolate #010320 Category: Concentrates & Extracts

Manufacturing Date: 1/13/2020

City and State of Origin: Grand Junction, CO

Residual Solvent Analysis

Category 1		LOQ	LOD	Limit	Status	Category 2		LOQ	LOD	Limit	Status	Category 2		100	LOD	Limit	Status
1,2-Dichloro-Ethane Benzene Chloroform Ethylene Oxide Methylene-Chloride Trichloroethene	Hg/g ND ND ND ND ND ND ND ND ND ND ND	J/g/g 1 1 1 1 1 1	дв/g 0.5 0.5 0.5 0.5 0.5 0.5	рв/в 1 1 1 1 1 1	Pass	Acetone Acetonitrile Butane Ethanol Ethyl-Acetate Ethyl-Ether Heptane	B/BH DA DA DA DA DA DA DA	µg/g 300 150 300 300 300 300 300	19/8 200 100 200 200 200 200 200 200	14g/g 5000 410 5000 5000 5000 5000 5000	Pass Pass Pass Pass Pass Pass	n-Hexane Isopropanol Methanol Pentane Propane Toluene	#g/g ND ND ND ND ND ND		11g/g 20 200 200	118/8 290 5000 3000 5000 5000	Pass Pass Pass Pass Pass Pass

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Heavy Metal Screening

	1100	LOQ	LOD	Limit	Status
	µg/g	µg/g	на/в	µg/g	
Arsenic	ND	0.048	0.016	0.2	Pass
Cadmium	ND	0.012	0.004	0.2	Pass
Lead	ND	0.011	0.004	0.5	Pass
Mercury	ND	0.033	0.011	0.1	Pass

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Microbiological Screening

	Result	Status
Aspergillus flavus	NR	NT
Aspergillus fumigatus	NR	NT
Aspergillus niger	NR	NT
Aspergillus terreus	NR	NT
shiga toxin-producing E. coli	Not Detected	Pass
Salmonella SPP	Not Detected	Pass

ND=Not Detected; *analytical instrumentation used:qPCR*



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3 of 3

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Manufacturing Date: 1/13/2020 City and State of Origin: Grand Junction, CO

Chemical Residue Screening

ICAL ID: 20200115-015

CBD Isolate #010320

Sample: 2001 CA0330.1088

Strain: CBD Isolate #010320

Category: Concentrates & Extracts

Category 1		LOQ	LOD	Status	Mycotoxins	LOQ	LOD	Limit	Status
Aldicarb	µg/g ND	11g/g 0.05	µg/g 0.03	Pass			In Color	1.1111L	Status
Carbofuran	ND	0.05	0.03	Pass					
Chlordane	ND	0.1	0.05	Pass					
Chlorfenapyr	ND	0.1	0.05	Pass					
Chlorpyrifos	ND	0.05	0.03	Pass					
Coumaphos	ND	0.05	0.03	Pass				*	
Daminozide	ND	0.05	0.03	Pass					
Dichlorvos	ND	0.05	0.03	Pass					
Dimethoate	ND	0.05	0.03	Pass					
Ethoprophos	ND	0.05	0.03	Pass					
Etofenprox	ND	0.05	0.03	Pass					
Fenoxycarb	ND	0.05	0.03	Pass					
Fipronil	ND	0.05	0.03	Pass					
Imazalil	ND	0.05	0.03	Pass					
Methiocarb	ND	0.05	0.03	Pass					
Mevinphos	ND	0.05	0.03	Pass					
Paclobutrazol	ND	0.05	0.03	Pass					
Propoxur	ND	0.05	0.03	Pass					
Spiroxamine	ND	0.05	0.03	Pass					
Thiacloprid	ND	0.05	0.03	Pass		100			

Category 2		LOQ	LOD	Limit	Status	Category 2		LOQ	LOD	Limit	Status
W.W. 000	µg/g	µg/g	pg/g	Jug/g			µg/g	µg/g	µg/g	µg/g	
Abamectin	ND	0.05	0.03	0.1	Pass	Kresoxim Methyl	ND	0.05	0.03	0.1	Pass
Acephate	ND	0.05	0.03	0.1	Pass	Malathion	ND	0.05	0.03	0.5	Pass
Acequinocyl	ND	0.05	0.03	0.1	Pass	Metalaxyl	ND	0.05	0.03	2	Pass
Acetamiprid	ND	0.05	EO.0	0.1	Pass	Methomyl	ND	0.05	0.03	1	Pass
Azoxystrobin	ND	0.05	0.03	0.1	Pass	Myclobutanil	ND	0.05	0.03	0.1	Pass
Bifenazate	ND	0.05	0.03	0.1	Pass	Naled	ND	0.1	0.05	0.1	Pass
Bifenthrin	ND	0.25	0.1	3	Pass	Oxamy	ND	0.2	0.1	0.5	Pass
Boscalid	ND	0.05	0.03	0.1	Pass	Pentachloronitrobenzene	ND	0.1	0.05	0.1	Pass
Captan	ND	0.35	0.2	0.7	Pass	Permethrin	ND	0.25	0.1	0.5	Pass
Carbaryl	ND	0.05	0.03	0.5	Pass	Phosmet	ND	0.05	0.03	0.1	Pass
Chlorantraniliprole	ND	0,05	0.03	10	Pass	Piperonyl Butoxide	ND	0.25	0.1	3	Pass
Clofentezine	ND	0.05	0.03	0.1	Pass	Prallethrin	ND	0.05	0.03	0.1	Pass
Cyfluthrin	ND	0.35	0.25	2	Pass	Propiconazole	ND	0.05	0.03	0.1	Pass
Cypermethrin	ND	0.35	0.2	1	Pass	Pyrethrins	ND	0.25	0.1	0.5	Pass
Diazinon	ND	0.05	0.03	0.1	Pass	Pyridaben	ND	0.05	0.03	0.1	Pass
Dimethomorph	ND	0.05	0.03	2	Pass	Spinetoram	ND	0.05	0.03	0.1	Pass
Etoxazole	ND	0.05	0.03	0.1	Pass	Spinosad	ND	0.05	0.03	0.1	Pass
Fenhexamid	ND	0.05	0.03	0.1	Pass	Spiromesifen	ND	0.05	0.03	0.1	Pass
Fenpyroximate	ND	0.05	0.03	0.1	Pass	Spirotetramat	ND	0.05	0.03	0.1	Pass
Flonicamid	ND	0.05	0.03	0.1	Pass	Tebuconazole	ND	0.05	0.03	0.1	Pass
Fludioxonil	ND	0.05	0.03	0.1	Pass	Thiamethoxam	ND	0.25	0.1	5	Pass
Hexythiazox	ND	0.05	0.03	0.1	Pass	Trifloxystrobin	ND	0.05	0.03	0.1	Pass
Imidacloprid	ND	0.35	0.1	5	Pass		140	0.03	0.00	0.1	F d 3 5

Unknown Analyte(s):

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