



Certificate of Analysis

QASAMPLE-INFORMATIONAL ONLY

1 of 3

ICAL ID: 20200127-108
Sample: 2001ICA0654.2468
CBD Isolate 010320
Strain: CBD Isolate 010320
Category: Concentrates & Extracts

Panacea Life Sciences
Lic. #
16194 W. 45TH DRIVE
Golden, CO 80403
Lic. #

Batch#: RM0055
Primary Size:
Total/Batch Size:
Collected: 01/29/2020; Received: 01/29/2020
Completed: 01/29/2020

Moisture NT Water Activity NT	Total THC ND	Total CBD 99.77%	Total Cannabinoids 99.99%	Total Terpenes 0.000 mg/g
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Summary	SOP Used	Date Tested	
Batch			Pass
Cannabinoids	SOP:POT-E001-Extract	01/07/2020	Complete
Terpenes	SOP:TERP.MS.Conc	01/29/2020	Complete
Residual Solvents	SOP:Inhalable	01/07/2020	Pass
Microbials	SOP:qpcrone	01/29/2020	Pass
Pesticides	PEST.002.Extract	01/28/2020	Pass
Heavy Metals	SOP:HM001	01/28/2020	Pass

Cannabinoid Profile

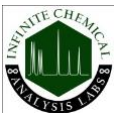
Analyte	LOQ	LOD	%	mg/g	Analyte	LOQ	LOD	%	mg/g
THCa	0.03	0.02	ND	ND	CBDV	0.03	0.02	0.23	2.3
Δ9-THC	0.03	0.02	ND	ND	CBN	0.03	0.02	ND	ND
Δ8-THC	0.03	0.02	ND	ND	CBGa	0.03	0.02	ND	ND
THCV	0.03	0.02	ND	ND	CBG	0.03	0.02	ND	ND
CBDa	0.03	0.02	ND	ND	CBC	0.03	0.02	ND	ND
CBD	0.03	0.02	99.77	997.7	Total THC			ND	ND
					Total CBD			99.77	997.7
					Total			99.99	999.9

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
D-Bisabolol	0.025	0.010	ND	ND	δ-Limonene	0.025	0.010	ND	ND
D-Humulol	0.025	0.010	ND	ND	Eucalyptol	0.025	0.010	ND	ND
D-Pinene	0.025	0.010	ND	ND	γ-Terpinene	0.025	0.010	ND	ND
D-Terpinene	0.025	0.010	ND	ND	Geraniol	0.025	0.010	ND	ND
β-Caryophyllene	0.025	0.010	ND	ND	Linalool	0.025	0.010	ND	ND
β-Myrcene	0.025	0.010	ND	ND	(-)-Guaïol	0.025	0.010	ND	ND
β-Pinene	0.025	0.010	ND	ND	(-)-Isopulegol	0.025	0.010	ND	ND
Camphene	0.025	0.010	ND	ND	p-Cymene	0.025	0.010	ND	ND
Caryophyllene Oxide	0.025	0.010	ND	ND	Terpinolene	0.025	0.010	ND	ND
cis-Nerolidol	0.025	0.010	ND	ND	trans-Nerolidol	0.025	0.010	ND	ND
cis-Ocimene	0.025	0.010	ND	ND	trans-Ocimene	0.025	0.010	ND	ND
δ-3-Carene	0.025	0.010	ND	ND	Total			0	0

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



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Josh M Swider

Josh Swider
Lab Director, Managing Partner
01/29/2020

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This product has been tested by Inhnite 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 5730, pursuant to 16 CCR section 5726(e)(13). Values reported relate only to the product tested. Inhnite 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 Inhnite 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	ND	1	0.5	1	Pass	Acetone	ND	300	200	5000	Pass	n-Hexane	ND	35	20	290	Pass
Benzene	ND	1	0.5	1	Pass	Acetonitrile	ND	150	100	410	Pass	Isopropanol	ND	300	200	5000	Pass
Chloroform	ND	1	0.5	1	Pass	Butane	ND	300	200	5000	Pass	Methanol	ND	300	200	3000	Pass
Ethylene Oxide	ND	1	0.5	1	Pass	Ethanol	ND	300	200	5000	Pass	Pentane	ND	300	200	5000	Pass
Methylene-Chloride	ND	1	0.5	1	Pass	Ethyl-Acetate	ND	300	200	5000	Pass	Propane	ND	300	200	5000	Pass
Trichloroethene	ND	1	0.5	1	Pass	Ethyl-Ether	ND	300	200	5000	Pass	Toluene	ND	150	100	890	Pass
						Heptane	ND	300	200	5000	Pass	Xylenes	ND	150	100	2170	Pass

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Heavy Metal Screening

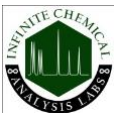
	µg/g	LOQ	LOD	Limit	Status
	µg/g	µg/g	µg/g	µg/g	
Arsenic	ND	0.048	0.016	0.2	Pass
Cadmium	ND	0.012	0.004	0.2	Pass
Lead	ND	0.011	0.004	0.5	Pass
Mercury	ND	0.033	0.011	0.1	Pass

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Microbiological Screening

	Result	Status
Aspergillus havus	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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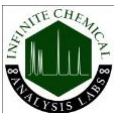
Chemical Residue Screening

Category 1	LOQ	LOD	Status	Mycotoxins	LOQ	LOD	Limit	Status
	µg/g	µg/g	µg/g					
Aldicarb	ND	0.05	0.03	Pass				
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				

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	0.05	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	0.03	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	Oxamyl	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
Cyuthrin	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	Trihoxystrobin	ND	0.05	0.03	0.1	Pass
Imidacloprid	ND	0.35	0.1	5	Pass						

Unknown Analyte(s):

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