

CERTIFICATE OF ANALYSIS

prepared for: Panacea Life Sciences 16194 W45th Drive GOLDEN, CO 80401

RM-0053

Batch ID:

Isolate

Test ID:

1980085.0015

Reported:

9-Oct-2019

Method:

TM14

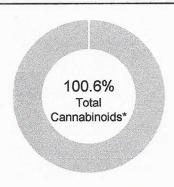
Type:

Concentrate

Test:

Potency

CANNABINOID PROFILE



CBD 100.15%

CBDa 0.00%

delta 9 THC 0.00%

THCa 0.00%

% = % (w/w) = Percent (Weight of Analyte / Weight of Product)

* Total Cannabinoids result reflects the absolute sum of all cannabinoids detected

** Total Potential THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation step.

Total THC = THC + (THCa *(0 877)) and Total CBD = CBD + (CBDa *(0.877))

Compound	LOQ (%)	Result (%)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.22	0.00	0.0
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.11	0.00	0.0
Cannabidiolic acid (CBDA)	0.35	0.00	0.0
Cannabidiol (CBD)	0.19	100.15	1001.5
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.12	0.00	0.0
Cannabinolic Acid (CBNA)	0.31	0.00	0.0
Cannabinol (CBN)	0.14	0.00	0.0
Cannabigerolic acid (CBGA)	0.20	0.00	0.0
Cannabigerol (CBG)	0.11	0.00	0.0
Tetrahydrocannabivarinic Acid (THCVA)	0.19	0.00	0.0
Tetrahydrocannabivarin (THCV)	0.10	0.00	0.0
Cannabidivarinic Acid (CBDVA)	0.32	0.00	0.0
Cannabidivarin (CBDV)	0.18	0.45	4.5
Cannabichromenic Acid (CBCA)	0.17	0.00	0.0
Cannabichromene (CBC)	0.20	0.00	0.0
Total Cannabinoids		100.60	1006.00
Total Potential THC**		0.00	0.00
Total Potential CBD**		100.15	1001.50

NOTES:

N/A

FINAL APPROVAL

Jefre Wie PREPARED BY/DATE

Tyler Wiese 9-Oct-2019 4:57 PM

4.57

A7 37

Greg Zimpfer 9-Oct-2019 5:42 PM

APPROVED BY / DATE

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC. ISO/IEC 17025.2005 Accredited A2LA Certificate Number 4329.02





Certificate #4329.02



CERTIFICATE OF ANALYSIS

prepared for: Panacea Life Sciences
16194 W45th Drive
GOLDEN, CO 80401

CBD Isolate RM-0053

Batch ID: Isolate

e Test ID:

8976865.007

Reported:

24-Oct-2019

Method:

TM04

Type:

Concentrate

Test:

Residual Solvents

RESIDUAL SOLVENTS

Solvent	Reportable Range (ppm)	Result (ppm)
Propane	100 - 2000	0
Butanes (isobutane, n-Butane)	100 - 2000	0
Pentane	100 - 2000	0
Ethanol	100 - 2000	0
Acetone	100 - 2000	0
Isopropyl Alcohol	100 - 2000	0
Hexane	6 - 120	0
Benzene	0.2 - 4	0.0
Heptanes	100 - 2000	0
Toluene	18 - 360	0
Xylenes (m,p,o-Xylenes)	43 - 860	O

NOTES:

Free from visual mold, mildew, and foreign matter

FINAL APPROVAL

alex Smith

Alex Smith 24-Oct-2019 3:09 PM

Dehn

David Green 24-Oct-2019 3:31 PM

PREPARED BY / DATE

APPROVED BY / DATE

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LLC, ISO/IEC 17025;2005 Accredited A2LA Certificate Number 4329.02





Certificate #4329.02



CERTIFICATE OF ANALYSIS

prepared for: PANACEA LIFE SCIENCES

16194 W 45TH DRIVE GOLDEN, CO 80403

CBD Isolate RM-0053

Batch ID:	K4996	Test ID:	5577146.012
Reported:	16-Dec-2019	Method:	Concentrate - Test Methods: TM05, TM06
Type:	Concentrate		
Test:	Microbial Contaminants		

MICROBIAL CONTAMINANTS

Contaminant	Result (CFU/g)*
Total Aerobic Count**	None Detected
Total Coliforms**	None Detected
Total Yeast and Molds**	None Detected
E. coli	None Detected
Salmonella	None Detected

^{*} CFU/g = Colony Forming Unit per Gram

Examples: 10^2 = 100 CFU

10³ = 1,000 CFU 10⁴ = 10,000 CFU 10⁵ = 100,000 CFU

NOTES:

Free from visual mold, mildew, and foreign matter

TYM: None Detected
Total Aerobic: None Detected
Coliforms: None Detected

FINAL APPROVAL

Mara Miller 16-Dec-2019 5:32 PM David Green 16-Dec-2019 6:23 PM

PREPARED BY / DATE APPROVED BY / DATE

Testing results are based solely upon the sample submitted to Botanacor Services, LLC, in the condition it was received. Botanacor Services, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Services, LLC.

^{**} Values recorded in scientific notation, a common microbial practice of expressing numbers that are too large to be conveniently written in decimal form.

Gobi Labs

Analytical Report

Manifest: METRC ID: CBD Isolate RM-0053

Sample Name:

1A4000712680D2B000000738

Sample Type:

Isolate Concentrate

License: Licensee:

Panacea Life Sciences

Facility Address:

403H-73547

Report No:

Chemistry Lab Inhaled or Audited

Product

Receive Date: Test Date:

Test Performed:

Intended Use:

MT-3824406-V1 2019-11-14 2019-11-15

Report Date:

2019-11-21

Sample Condition: Good Method Reference: GA-OP-17

Scope

Arsenic, Cadmium, Lead and Mercury were determined by an Inductive Coupled Plasma Mass Spectrometer (ICP-MS) using an in-house developed method.

Metals	Regulatory Limits (ppm)	Parts Per Million (ppm)
Arsenic	< 0.2 ppm	ND
Cadmium	< 0.2 ppm	ND
Lead	< 0.5 ppm	ND
Mercury	< 0.1 ppm	ND

ND - not detected; T - trace; ULOQ - upper limit of quantitation

Laboratory Comments:

2019-11-21

Date

Dave Wells - Laboratory Manager

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> Gobi Analytical 3924 Youngfield St. Wheat Ridge CO 80033 ● (303) 456-2040



Gobi Labs

Pesticide Residues Report

Manifest:

CBD Isolate RM-0053

METRC ID:

1A4000712680D2B00000073

Sample Name: Sample Type: RM-0053 CBD Isolate

License: Panacea

Panacea Life Sciences

Report No: Receive Date: Test Date: Report Date:

Test Performed:

Chemistry Lab PE-3824406-V1 2019-11-14 2019-11-15

2019-11-15 2019-11-18 Good

Sample Condition: Good **Method Reference:** GA-OP-11

Scope

Facility Address:

The content of 13 pesticides were quantified using liquid chromatography coupled to multiple mass spectrometry (LC-MS2) equipped with electrospray ionization (ESI) in positive mode after sample extraction and clean up using QuEChERS methodology based on AOAC 2007 and EN 15662 standard procedures certified by CDPHE. Identification was based on the retention time of each compound and the product mass generated using single reaction monitoring (SRM), and quantitation was determined using external standard calibration.

Pesticides	Regulatory Limit (ppm)	Sample Reporting Limit (ppm)*	Parts Per Million (ppm)**
Abamectin	0.070	0.070	ND
Azoxystrobin	0.020	0.005	ND
Bifenazate	0.020	0.005	ND
Etoxazole	0.010	0.005	ND
Imazalil	0.040	0.005	ND
Imidacloprid	0.020	0.005	ND
Malathion	0.050	0.005	ND
Myclobutanil	0.040	0.010	ND
Permethrin	0.040	0.020	ND
Spinosad	0.060	0.010	ND
Spiromesifen	0.030	0.005	ND
Spirotetramat	0.020	0.010	ND
Tebuconazole	0.010	0.010	ND

*or Lower Limit of Quantitation (LLOQ). **T (Trace) = sample result is between LLOQ and Method Detection Limit (MDL). ND (Not Detected) = sample result is below MDL. >HLOQ = sample result is above Higher LOQ.

Laboratory Comments:

Dave Wells - Laboratory Manager

2019-11-18

Date

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PJLA Testing