

Certificate of Analysis

Cover Page

Twin Arbor Analytical

3990 Ruth Way Suite D
Paso Robles, CA 93446
(805) 369-2123



PREPARED FOR:

Cannabiva Medical
297 Kingsbury Grade - Suite 1183
Lake Tahoe, NV 89449

Report Date 7/7/2020
Sample ID R12A
Sample Name Full Spectrum CBD Softgel Capsules
(750MG, 1500MG, 3000MG, 6000MG)

Results

Analysis

Cannabinoids
Total CBD (mg/g) **46.03**
Total THC **PASS**

Pesticides and Mycotoxins
Result **PASS**

Residual Solvents
Result **PASS**

Heavy Metals
Result **PASS**

Microbial
Result **PASS**

Terpenes
Page NT

NT = Not Tested

Forrest Richmond
Laboratory Manager

CERTIFICATE DISCLAIMER: The results contained within this report only apply to the material presented to Twin Arbor Analytical in the condition it was provided. This report is confidential and for the exclusive use of the individual or organization for whom it was prepared. This report shall not be altered and must not be reproduced, unless in its entirety, without the express written permission from Twin Arbor Analytical.

Certificate of Analysis

Twin Arbor Analytical

3990 Ruth Way Suite D
Paso Robles, CA 93446
(805) 369-2123



PREPARED FOR:

Cannabiva Medical
297 Kingsbury Grade - Suite 1183
Lake Tahoe, NV 89449

Report Date

7/7/2020

Sample ID

R12A

Sample Type

Full Spectrum CBD Softgel Capsules
(750MG, 1500MG, 3000MG, 6000MG)

Internal Sample ID

200629-129-1

Lab Batch ID

200701-1

Date of Analysis

7/2/2020

Analysis: Cannabinoids

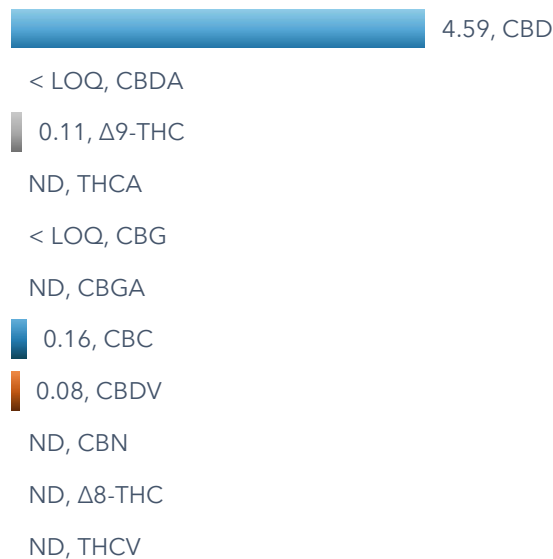
Instrumentation: HPLC/DAD

Intrument ID: HPLC 1

Method: TM0002 (Twin Arbor Analytical Proprietary)

	LOD / LOQ (mg/g)	mg/g	% by weight
CBD	0.17 / 0.5	45.9	4.59
CBDA	0.17 / 0.5	< LOQ	< LOQ
Total CBD *		45.9	4.59
Δ9-THC	0.17 / 0.5	1.1	0.11
THCA	0.17 / 0.5	ND	ND
Total THC *		1.1	0.11
CBG	0.17 / 0.5	< LOQ	< LOQ
CBGA	0.17 / 0.5	ND	ND
Total CBG *		N/A	N/A
CBC	0.17 / 0.5	1.6	0.16
CBDV	0.17 / 0.5	0.8	0.08
CBN	0.17 / 0.5	ND	ND
Δ8-THC	0.17 / 0.5	ND	ND
THCV	0.17 / 0.5	ND	ND
Total Tested Cannabinoids		49.4	4.94

% by weight



Moisture Content: **NT**

NOTE: Assuming 0.5 g per unit, total CBD equals 22.9 mg/unit

Updated "Prepared For" section - 12/11/2020 - SP

ND = Not Detected

NT = Not Tested

* Totals account for decarboxilation of the acid and equal $XXX + (XXXX * 0.877)$

For example: Total THC = Δ9-THC + (THCA * 0.877)

Forrest Richmond
Laboratory Manager

CERTIFICATE DISCLAIMER: The results contained within this report only apply to the material presented to Twin Arbor Analytical in the condition it was provided. This report is confidential and for the exclusive use of the individual or organization for whom it was prepared. This report shall not be altered and must not be reproduced, unless in its entirety, without the express written permission from Twin Arbor Analytical.

Certificate of Analysis

Twin Arbor Analytical

3990 Ruth Way Suite D
Paso Robles, CA 93446
(805) 369-2123



PREPARED FOR:

Cannabiva Medical
297 Kingsbury Grade - Suite 1183
Lake Tahoe, NV 89449

Report Date

7/7/2020

Sample ID

R12A

Sample Type

Full Spectrum CBD Softgel Capsules
(750MG, 1500MG, 3000MG, 6000MG)

Internal Sample ID

200629-129-1

Lab Batch ID

200703-1

Date of Analysis

7/3/2020

Analysis: Pesticides and Mycotoxins

Instrumentation: LC-Mass Spectrometer

Intrument ID: LCMS 1

Method: TM0004 (Twin Arbor Analytical Proprietary)

Mycotoxins	Pass / Fail	Results (µg/g)	Action Limit (µg/g)	LOD / LOQ (µg/g)
Aflatoxin B1	Pass	ND	0.02	0.000 / 0.001
Aflatoxin B2	Pass	ND	0.02	0.001 / 0.004
Aflatoxin G1	Pass	ND	0.02	0.000 / 0.001
Aflatoxin G2	Pass	ND	0.02	0.001 / 0.004
Ochratoxin A	Pass	ND	0.02	0.004 / 0.013

Category I	Pass / Fail	Results (µg/g)	Action Limit (µg/g)	LOD / LOQ (µg/g)
Aldicarb	Pass	ND	ND	0.035 / 0.105
Carbofuran	Pass	ND	ND	0.035 / 0.105
Chlordane	Pass	ND	ND	0.105 / 0.315
Chlorfenapyr	Pass	ND	ND	0.035 / 0.105
Chlorpyrifos	Pass	ND	ND	0.035 / 0.105
Coumaphos	Pass	ND	ND	0.035 / 0.105
Daminozide	Pass	ND	ND	0.035 / 0.105
DDVP (Dichlorvos)	Pass	ND	ND	0.035 / 0.105
Dimethoate	Pass	ND	ND	0.035 / 0.105
Ethoprop(hos)	Pass	ND	ND	0.035 / 0.105
Etofenprox	Pass	ND	ND	0.035 / 0.105
Fenoxycarb	Pass	ND	ND	0.035 / 0.105
Fipronil	Pass	ND	ND	0.035 / 0.105
Imazalil	Pass	ND	ND	0.035 / 0.105
Methiocarb	Pass	ND	ND	0.035 / 0.105
Methyl parathion	Pass	ND	ND	0.035 / 0.105
Mevinphos	Pass	ND	ND	0.018 / 0.053
Paclobutrazol	Pass	ND	ND	0.035 / 0.105
Propoxur	Pass	ND	ND	0.035 / 0.105
Spiroxamine	Pass	ND	ND	0.035 / 0.105
Thiacloprid	Pass	ND	ND	0.035 / 0.105

Continued on page 4

CERTIFICATE DISCLAIMER: The results contained within this report only apply to the material presented to Twin Arbor Analytical in the condition it was provided. This report is confidential and for the exclusive use of the individual or organization for whom it was prepared. This report shall not be altered and must not be reproduced, unless in its entirety, without the express written permission from Twin Arbor Analytical.

Analysis: Pesticides and Mycotoxins (continued)

Instrumentation: LC-Mass Spectrometer

Instrument ID: LCMS 1

Method: TM0004 (Twin Arbor Analytical Proprietary)

Category II	Pass / Fail	Results (µg/g)	Action Limit (µg/g)	LOD / LOQ (µg/g)
Abamectin	Pass	ND	0.30	0.018 / 0.053
Acephate	Pass	ND	5.00	0.018 / 0.053
Acequinocyl	Pass	ND	4.00	0.018 / 0.053
Acetamiprid	Pass	ND	5.00	0.018 / 0.053
Azoxystrobin	Pass	ND	40.00	0.018 / 0.053
Bifenazate	Pass	ND	5.00	0.018 / 0.053
Bifenthrin	Pass	ND	0.50	0.018 / 0.053
Boscalid	Pass	ND	10.00	0.018 / 0.053
Captan	Pass	ND	5.00	0.035 / 0.105
Carbaryl	Pass	ND	0.50	0.018 / 0.053
Chlorantraniliprole	Pass	ND	40.00	0.018 / 0.053
Clofentezine	Pass	ND	0.50	0.018 / 0.053
Cyfluthrin	Pass	ND	1.00	0.035 / 0.105
Cypermethrin	Pass	ND	1.00	0.018 / 0.053
Diazinon	Pass	ND	0.20	0.018 / 0.053
Dimethomorph	Pass	ND	20.00	0.018 / 0.053
Etoazole	Pass	ND	1.50	0.018 / 0.053
Fenhexamid	Pass	ND	10.00	0.018 / 0.053
Fenpyroximate	Pass	ND	2.00	0.018 / 0.053
Fonicamid	Pass	ND	2.00	0.018 / 0.053
Fludioxonil	Pass	ND	30.00	0.018 / 0.053
Hexythiazox	Pass	ND	2.00	0.018 / 0.053
Imidacloprid	Pass	ND	3.00	0.018 / 0.053
Kresoxim-methyl	Pass	ND	1.00	0.018 / 0.053
Malathion	Pass	ND	5.00	0.018 / 0.053
Metalaxyl	Pass	ND	15.00	0.018 / 0.053
Methomyl	Pass	ND	0.10	0.018 / 0.053
Myclobutanil	Pass	< LOQ	9.00	0.018 / 0.053
Naled	Pass	ND	0.50	0.018 / 0.053
Oxamyl	Pass	ND	0.20	0.018 / 0.053
Pentachloronitrobenzene	Pass	ND	0.20	0.018 / 0.053
Permethrin	Pass	ND	20.00	0.018 / 0.053
Phosmet	Pass	ND	0.20	0.018 / 0.053
Piperonylbutoxide	Pass	ND	8.00	0.018 / 0.053
Prallethrin	Pass	ND	0.40	0.018 / 0.053
Propiconazole	Pass	ND	20.00	0.018 / 0.053
Pyrethrins	Pass	ND	1.00	0.018 / 0.053
Pyridaben	Pass	ND	3.00	0.018 / 0.053
Spinetoram	Pass	ND	3.00	0.018 / 0.053
Spinosad	Pass	ND	3.00	0.018 / 0.053
Spiromesifen	Pass	ND	12.00	0.018 / 0.053
Spirotetramat	Pass	ND	13.00	0.018 / 0.053
Tebuconazole	Pass	ND	2.00	0.018 / 0.053
Thiamethoxam	Pass	ND	4.50	0.018 / 0.053
Trifloxystrobin	Pass	ND	30.00	0.018 / 0.053

LOD = Limit of Detection
 LOQ = Limit of Quantification
 ND = Not Detected
 NT = Not Tested

Notes:
 Updated "Prepared For" section - 12/11/2020 - SP



Forrest Richmond
 Laboratory Manager

CERTIFICATE DISCLAIMER: The results contained within this report only apply to the material presented to Twin Arbor Analytical in the condition it was provided. This report is confidential and for the exclusive use of the individual or organization for whom it was prepared. This report shall not be altered and must not be reproduced, unless in its entirety, without the express written permission from Twin Arbor Analytical.

Certificate of Analysis

Twin Arbor Analytical

3990 Ruth Way Suite D
Paso Robles, CA 93446
(805) 369-2123



PREPARED FOR:

Cannabiva Medical
297 Kingsbury Grade - Suite 1183
Lake Tahoe, NV 89449

Report Date

7/7/2020

Sample ID

R12A

Sample Name

Full Spectrum CBD Softgel Capsules
(750MG, 1500MG, 3000MG, 6000MG)

Internal Sample ID

200629-129-1

Lab Batch ID

200707-1

Date of Analysis

7/7/2020

Analysis: Residual Solvents

Instrumentation: GC-MS

Intrument ID: GCMS1

Method: TM0006 (Twin Arbor Analytical Proprietary)

	Pass / Fail	Results (µg/g)	Action Limit (µg/g)	LOQ (µg/g)
1,2-Dichloroethane	PASS	< LOQ	1.0	0.02
Benzene	PASS	< LOQ	1.0	0.01
Chloroform	PASS	< LOQ	1.0	0.02
Ethylene oxide	PASS	< LOQ	1.0	0.23
Methylene chloride	PASS	< LOQ	1.0	0.55
Trichloroethylene	PASS	< LOQ	1.0	0.11
Acetone	PASS	< LOQ	5000	16.53
Acetonitrile	PASS	< LOQ	410	1.32
Butane	PASS	< LOQ	5000	36.73
Ethanol	PASS	< LOQ	5000	22.04
Ethyl acetate	PASS	< LOQ	5000	8.82
Ethyl ether	PASS	< LOQ	5000	2.2
Heptane	PASS	< LOQ	5000	11.02
Hexane	PASS	< LOQ	290	0.55
Isopropyl alcohol	PASS	< LOQ	5000	20.66
Methanol	PASS	< LOQ	3000	10.33
Pentane	PASS	< LOQ	5000	16.53
Propane	PASS	< LOQ	5000	7.65
Toluene	PASS	< LOQ	890	1.65
Total xylenes (ortho-, meta-, para-)	PASS	< LOQ	2170	6.61



Forrest Richmond
Laboratory Manager

ND = Not Detected

NT = Not Tested

CERTIFICATE DISCLAIMER: The results contained within this report only apply to the material presented to Twin Arbor Analytical in the condition it was provided. This report is confidential and for the exclusive use of the individual or organization for whom it was prepared. This report shall not be altered and must not be reproduced, unless in its entirety, without the express written permission from Twin Arbor Analytical.

Certificate of Analysis

Twin Arbor Analytical

3990 Ruth Way Suite D
Paso Robles, CA 93446
(805) 369-2123



PREPARED FOR:

Cannabiva Medical
297 Kingsbury Grade - Suite 1183
Lake Tahoe, NV 89449

Report Date

7/7/2020

Sample ID

R12A

Sample Type

Full Spectrum CBD Softgel Capsules
(750MG, 1500MG, 3000MG, 6000MG)

Internal Sample ID

200629-129-1

Lab Batch ID

200703-1

Date of Analysis

7/3/2020

Analysis: Heavy Metals

Instrumentation: ICP-MS

Intrument ID: ICPMS1

Method: TM0005 (Twin Arbor Analytical Proprietary)

	Pass / Fail	Results ($\mu\text{g/g}$)	Action Limit ($\mu\text{g/g}$)	LOQ ($\mu\text{g/g}$)
Arsenic	PASS	< LOQ	0.2	0.1
Cadmium	PASS	< LOQ	0.2	0.05
Lead	PASS	< LOQ	0.5	0.05
Mercury	PASS	< LOQ	0.1	0.05

NOTE:

Updated "Prepared For" section - 12/11/2020 - SP

Forrest Richmond
Laboratory Manager

CERTIFICATE DISCLAIMER: The results contained within this report only apply to the material presented to Twin Arbor Analytical in the condition it was provided. This report is confidential and for the exclusive use of the individual or organization for whom it was prepared. This report shall not be altered and must not be reproduced, unless in its entirety, without the express written permission from Twin Arbor Analytical.

Certificate of Analysis

Twin Arbor Analytical

3990 Ruth Way Suite D
Paso Robles, CA 93446
(805) 369-2123



PREPARED FOR:

Cannabiva Medical
297 Kingsbury Grade - Suite 1183
Lake Tahoe, NV 89449

Report Date

7/7/2020

Sample ID

R12A

Sample Type

Full Spectrum CBD Softgel Capsules
(750MG, 1500MG, 3000MG, 6000MG)

Internal Sample ID

200629-129-1

Lab Batch ID

200701-1

Date of Analysis

7/4/2020

Analysis: Microbial Impurities

Instrumentation: RT-PCR Instrument ID: BAX1 Method: AOAC-RI 091301 (modified)

	Action Limit	Pass / Fail
STEC (Shiga-toxicogenic E. coli)	ND	PASS
Salmonella sp.	ND	PASS
Pathogenic Aspergillus	ND	NT

NOTE:

Updated "Prepared For" section - 12/11/2020 - SP

Forrest Richmond
Laboratory Manager

ND = Not Detected NT = Not Tested

CERTIFICATE DISCLAIMER: The results contained within this report only apply to the material presented to Twin Arbor Analytical in the condition it was provided. This report is confidential and for the exclusive use of the individual or organization for whom it was prepared. This report shall not be altered and must not be reproduced, unless in its entirety, without the express written permission from Twin Arbor Analytical.