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 Stateline, NV 89449 Report Date Sample ID Batch / Lot 3/16/2022 Zero High CBD Isolate ZHBCBD-056CC

Results	
Analysis	
Cannabinoids CBD (%) Total THC	
Pesticides and Mycoto Result	
Residual Solvents Result	t PASS
Heavy Metals Result	t PASS
Microbial Result	t PASS
Terpenes Page	e NT

Forrest Richmond Laboratory Manager

NT = Not Tested

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> ND, CBN ND, Δ8-THC

ND, THCV

3/16/2022 Zero High CBD Isolate ZHBCBD-056CC 220218-144-2 220225-3 3/3/2022

Analysis: Cannabinoids

Instrumentation: HPLC/DAD

Intrument ID: HPLC 1

C 1 Method: TM0002 (Twin Arbor Analytical Proprietary)

	LOD / LOQ		% by
	(mg/g)	mg/g	weight
CBD	0.23 / 0.69	981.7	98.17
CBDA	0.21 / 0.64	1.1	0.11
Total CBD *		982.7	98.27
∆9-ТНС	0.21 / 0.64	< LOQ	< LOQ
ТНСА	0.21 / 0.64	ND	ND
Total THC *		N/A	N/A
CBG	0.21 / 0.64	ND	ND
CBGA	0.21 / 0.64	ND	ND
Total CBG *		N/A	N/A
СВС	0.21 / 0.64	0.7	0.07
CBDV	0.21 / 0.64	2.3	0.23
CBN	0.21 / 0.64	ND	ND
∆8-THC	0.21 / 0.64	ND	ND
THCV	0.21 / 0.64	ND	ND
Total Tested Cannabinoids		985.8	98.58

% by weight 98.17, CBD 0.11, CBDA < LOQ, Δ9-THC ND, THCA ND, CBG ND, CBGA 0.07, CBC 0.23, CBDV

Moisture Content: NT

ND = Not Detected

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* Totals account for decarboxilation of the acid and equal XXX + (XXXA * 0.877) For example: Total THC = Δ 9-THC + (THCA * 0.877)

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3/16/2022 Zero High CBD Isolate ZHBCBD-056CC 220218-144-2 220301-4 3/1/2022

Analysis: Pesticides and Mycotoxins

Instrumentation: LC-Mass Spectrometer Int

Intrument ID: LCMS 1 Method: TM0004 (Twin Arbor Analytical Proprietary)

Mucataving		Results	Action Limit	
Mycotoxins	Pass / Fail	(µg/g)	(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	0.033 / 0.100
Carbofuran	Pass	ND	ND	0.033 / 0.100
Chlordane	Pass	ND	ND	0.100 / 0.300
Chlorfenapyr	Pass	ND	ND	0.033 / 0.100
Chlorpyrifos	Pass	ND	ND	0.033 / 0.100
Coumaphos	Pass	ND	ND	0.033 / 0.100
Daminozide	Pass	ND	ND	0.033 / 0.100
DDVP (Dichlorvos)	Pass	ND	ND	0.033 / 0.100
Dimethoate	Pass	ND	ND	0.033 / 0.100
Ethoprop(hos)	Pass	ND	ND	0.033 / 0.100
Etofenprox	Pass	ND	ND	0.033 / 0.100
Fenoxycarb	Pass	ND	ND	0.033 / 0.100
Fipronil	Pass	ND	ND	0.033 / 0.100
Imazalil	Pass	ND	ND	0.033 / 0.100
Methiocarb	Pass	ND	ND	0.033 / 0.100
Methyl parathion	Pass	ND	ND	0.033 / 0.100
Mevinphos	Pass	ND	ND	0.017 / 0.050
Paclobutrazol	Pass	ND	ND	0.033 / 0.100
Propoxur	Pass	ND	ND	0.033 / 0.100
Spiroxamine	Pass	ND	ND	0.033 / 0.100
Thiacloprid	Pass	ND	ND	0.033 / 0.100

Continued on page 4

Analysis: Pesticides and Mycotoxins (continued)

Instrumentation: LC-Mass Spectrometer Intrument ID: LCMS 1

Method: TM0004 (Twin Arbor Analytical Proprietary)

		Results	Action Limit	
Category II	Pass / Fail	(µg/g)	(µg/g)	LOD / LOQ (µg/g)
Abamectin	Pass	ND	0.10	0.017 / 0.050
Acephate	Pass	ND	0.10	0.017 / 0.050
Acequinocyl	Pass	ND	0.10	0.017 / 0.050
Acetamiprid	Pass	ND	0.10	0.017 / 0.050
Azoxystrobin	Pass	ND	0.10	0.017 / 0.050
Bifenazate	Pass	ND	0.10	0.017 / 0.050
Bifenthrin	Pass	ND	3.00	0.017 / 0.050
Boscalid	Pass	< LOQ	0.10	0.017 / 0.050
Captan	Pass	ND	0.70	0.033 / 0.100
Carbaryl	Pass	ND	0.50	0.017 / 0.050
Chlorantraniliprole	Pass	ND	10.00	0.017 / 0.050
Clofentezine	Pass	ND	0.10	0.017 / 0.050
Cyfluthrin	Pass	ND	2.00	0.033 / 0.100
Cypermethrin	Pass	ND	1.00	0.017 / 0.050
Diazinon	Pass	ND	0.10	0.017 / 0.050
Dimethomorph	Pass	ND	2.00	0.017 / 0.050
Etoxazole	Pass	ND	0.10	0.017 / 0.050
Fenhexamid	Pass	ND	0.10	0.017 / 0.050
Fenpyroximate	Pass	ND	0.10	0.017 / 0.050
Flonicamid	Pass	ND	0.10	0.017 / 0.050
Fludioxonil	Pass	ND	0.10	0.017 / 0.050
Hexythiazox	Pass	ND	0.10	0.017 / 0.050
Imidacloprid	Pass	ND	5.00	0.017 / 0.050
Kresoxim-methyl	Pass	ND	0.10	0.017 / 0.050
Malathion	Pass	ND	0.50	0.017 / 0.050
Metalaxyl	Pass	ND	2.00	0.017 / 0.050
Methomyl	Pass	ND	1.00	0.017 / 0.050
Myclobutanil	Pass	ND	0.10	0.017 / 0.050
Naled	Pass	ND	0.10	0.017 / 0.050
Oxamyl	Pass	ND	0.50	0.017 / 0.050
Pentachloronitrobenzene	Pass	ND	0.10	0.017 / 0.050
Permethrin	Pass	ND	0.50	0.017 / 0.050
Phosmet	Pass	ND	0.10	0.017 / 0.050
Piperonylbutoxide	Pass	ND	3.00	0.017 / 0.050
Prallethrin	Pass	ND	0.10	0.017 / 0.050
Propiconazole	Pass	ND	0.10	0.017 / 0.050
Pyrethrins	Pass	ND	0.50	0.017 / 0.050
Pyridaben	Pass	ND	0.10	0.017 / 0.050
Spinetoram	Pass	ND	0.10	0.017 / 0.050
Spinosad	Pass	ND	0.10	0.017 / 0.050
Spiromesifen	Pass	ND	0.10	0.017 / 0.050
Spirotetramat	Pass	ND	0.10	0.017 / 0.050
Tebuconazole	Pass	ND	0.10	0.017 / 0.050
Thiamethoxam	Pass	ND	5.00	0.017 / 0.050
Trifloxystrobin	Pass	ND	0.10	0.017 / 0.050

LOD = Limit of Detection

LOQ = Limit of Quantification

NT = Not Tested

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Analysis:

Residual Solvents

Instrumentation: GC-MS

Intrument ID: GCMS1

Method: TM0006 (Twin Arbor Analytical Proprietary)

		Action Limit		
	Pass / Fail	Results (µg/g)	(µg/g)	LOQ (µg/g)
1,2-Dichloroethane	PASS	< LOQ	1.0	0.41
Benzene	PASS	< LOQ	1.0	0.42
Chloroform	PASS	< LOQ	1.0	0.41
Ethylene oxide	PASS	< LOQ	1.0	0.42
Methylene chloride	PASS	< LOQ	1.0	0.4
Trichloroethylene	PASS	< LOQ	1.0	0.43
Acetone	PASS	< LOQ	5000	59.2
Acetonitrile	PASS	< LOQ	410	60.92
Butane	PASS	< LOQ	5000	64
Ethanol	PASS	< LOQ	5000	59.54
Ethyl acetate	PASS	< LOQ	5000	59.96
Ethyl ether	PASS	< LOQ	5000	59.1
Heptane	PASS	< LOQ	5000	59.24
Hexane	PASS	< LOQ	290	59.28
lsopropyl alcohol	PASS	< LOQ	5000	59.3
Methanol	PASS	< LOQ	3000	59.3
Pentane	PASS	< LOQ	5000	59.56
Propane	PASS	< LOQ	5000	40
Toluene	PASS	< LOQ	890	59.3
Total xylenes (ortho-, meta-, para-)	PASS	< LOQ	2170	179.06

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3/16/2022 Zero High CBD Isolate ZHBCBD-056CC 220218-144-2 220301-5 3/2/2022

Analysis: Heavy Metals

Instrumentation: ICP-MS

Intrument ID: ICPMS1

Method: TM0005 (Twin Arbor Analytical Proprietary)

	Pass / Fail	Results (µg/g)	Action Limit (µg/g)	LOQ (µg/g)
Arsenic	PASS	< LOQ	0.2	0.013
Cadmium	PASS	< LOQ	0.2	0.013
Lead	PASS	< LOQ	0.5	0.031
Mercury	PASS	< LOQ	0.1	0.013

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LOQ = Limit of Quantiication

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3/16/2022 Zero High CBD Isolate ZHBCBD-056CC 220218-144-2 220218-144 2/24/2022

Analysis:

Microbial Impurities

Instrumentation: RT-PCR

Intrument ID: BAX1 Method: AOAC-RI 091301 (modified)

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

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