

Certificate of Analysis Cover Page

Twin Arbor Analytical

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



PREPARED FOR:

The Organica Company, LLC.
120 I Street, Suite 301
Sacramento, CA 95814

Report Date 5/8/2020
Sample ID 19S4
Sample Name Zero High Pure CBD Isolate

Results

Analysis

Cannabinoids

CBD (%) **100.44 %**
Total THC **PASS**

Pesticides and Mycotoxins

Result **PASS**

Residual Solvents

Result **PASS**

Heavy Metals

Result **PASS**

Microbial

Result **PASS**

Terpenes

Page NT

Forrest Richmond
Laboratory Manager

NT = Not Tested

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120 I Street, Suite 301
Sacramento, CA 95814

Report Date 5/1/2020
Sample ID 19S4
Sample Name Zero High Pure CBD Isolate
Sample Type Isolate
Internal Sample ID 200430-113-1
Lab Batch ID 200430-2
Date of Analysis 4/30/2020

Analysis: Cannabinoids

Instrumentation: HPLC/DAD Instrument ID: HPLC 1 Method: TM0002 (Twin Arbor Analytical Proprietary)

	LOD / LOQ (mg/g)	mg/g	% by weight
CBD	1.04 / 3.13	1004.4	100.44
CBDA	1.04 / 3.13	ND	ND
Total CBD *		1004.4	100.44
Δ9-THC	1.04 / 3.13	ND	ND
THCA	1.04 / 3.13	ND	ND
Total THC *		N/A	N/A
CBG	1.04 / 3.13	ND	ND
CBGA	1.04 / 3.13	ND	ND
Total CBG *		N/A	N/A
CBC	1.04 / 3.13	ND	ND
CBDV	1.04 / 3.13	ND	ND
CBN	1.04 / 3.13	ND	ND
Δ8-THC	1.04 / 3.13	ND	ND
THCV	1.04 / 3.13	ND	ND
Total Tested Cannabinoids		1004.4	100.44

% by weight

100.44, CBD

ND, CBDA
ND, Δ9-THC
ND, THCA
ND, CBG
ND, CBGA
ND, CBC
ND, CBDV
ND, CBN
ND, Δ8-THC
ND, THCV

Moisture Content: **NT**

ND = Not Detected

NT = Not Tested

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

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



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Laboratory Manager

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Report Date

5/8/2020

Sample ID

19S4

Sample Name

Zero High Pure CBD Isolate

Internal Sample ID

200430-113-1

Lab Batch ID

200505-1

Date of Analysis

5/5/2020

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

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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	ND	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



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Laboratory Manager

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Report Date

5/8/2020

Sample ID

19S4

Sample Name

Zero High Pure CBD Isolate

Internal Sample ID

200430-113-1

Lab Batch ID

200504-1

Date of Analysis

5/4/2020

Analysis: Residual Solvents

Instrumentation: GC-MS

Intrument ID: GCMS1

Method: TM0006 (Twin Arbor Analytical Proprietary)

	Pass / Fail	Action Limit		
		Results (µg/g)	LOQ (µg/g)	
1,2-Dichloroethane	PASS	< LOQ	1.0	0.05
Benzene	PASS	< LOQ	1.0	0.007
Chloroform	PASS	< LOQ	1.0	0.067
Ethylene oxide	PASS	< LOQ	1.0	0.771
Methylene chloride	PASS	< LOQ	1.0	0.221
Trichloroethylene	PASS	< LOQ	1.0	0.09
Acetone	PASS	31.427	5000	7.72
Acetonitrile	PASS	< LOQ	410	1.357
Butane	PASS	< LOQ	5000	57.749
Ethanol	PASS	< LOQ	5000	7.714
Ethyl acetate	PASS	< LOQ	5000	7.721
Ethyl ether	PASS	< LOQ	5000	7.773
Heptane	PASS	74.714	5000	7.717
Hexane	PASS	< LOQ	290	0.961
Isopropyl alcohol	PASS	< LOQ	5000	7.719
Methanol	PASS	< LOQ	3000	10.876
Pentane	PASS	< LOQ	5000	7.736
Propane	PASS	< LOQ	5000	7.716
Toluene	PASS	< LOQ	890	2.963
Total xylenes (ortho-, meta-, para-)	PASS	< LOQ	2170	7.187



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Laboratory Manager

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Report Date 5/8/2020
Sample ID 19S4
Sample Name Zero High Pure CBD Isolate
Internal Sample ID 200430-113-1
Lab Batch ID 200507-1
Date of Analysis 5/7/2020

Analysis: Heavy Metals

Instrumentation: ICP-MS Instrument 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	0.05
Cadmium	PASS	< LOQ	0.2	0.05
Lead	PASS	< LOQ	0.5	0.05
Mercury	PASS	< LOQ	0.1	0.05

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Report Date 5/8/2020
Sample ID 19S4
Sample Name Zero High Pure CBD Isolate
Internal Sample ID 200430-113-1
Lab Batch ID 200506-1
Date of Analysis 5/5/2020

Analysis: Microbial Impurities

Instrumentation: RT-PCR Instrument 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	NT

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