Certificate of Analysis Cover Page

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

TWIN ARBOR

PREPARED FOR:

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

Report Date	5/21/2020
Sample ID	G06A
Sample Name	500MG/250MG Broad Spectrum CBD Oil

Results

Analysis		
Cannabinoids		
	CBD (mg/mL)	**17.6**
	Total THC	**PASS**
Pesticides and Mycotoxins		
	Result	**PASS**
Residual Solvents		
	Result	**PASS**
Heavy Metals		
	Result	**PASS**
Microbial		
	Result	**PASS**
Terpenes		
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Forrest Richmond
Laboratory Manager

NT = Not Tested

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The Organica Company, LLC.
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Report Date	5/15/2020
Sample ID	G06A
Sample Type	500MG/250MG Broad Spectrum CBD Oil
Internal Sample ID	200515-120-8
Lab Batch ID	200515-1
Date of Analysis	5/15/2020

Analysis: Cannabinoids

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

	LOD / LOQ (mg/g)	mg/g	mg/ml
CBD	0.07 / 0.2	18.5	17.5
CBDA	0.07 / 0.2	ND	ND
Total CBD *		**18.5**	17.5
Δ9-THC	0.07 / 0.2	ND	ND
THCA	0.07 / 0.2	ND	ND
Total THC *		**N/A**	N/A
CBG	0.07 / 0.2	ND	ND
CBGA	0.07 / 0.2	ND	ND
Total CBG *		**N/A**	N/A
CBC	0.07 / 0.2	0.3	0.3
CBDV	0.07 / 0.2	ND	ND
CBN	0.07 / 0.2	< LOQ	< LOQ
Δ8-THC	0.07 / 0.2	ND	ND
THCV	0.07 / 0.2	ND	ND
Total Tested Cannabinoids		**18.8**	**17.8**

mg/ml

17.5, CBD
ND, CBDA
ND, Δ9-THC
ND, THCA
ND, CBG
ND, CBGA
0.3, CBC
ND, CBDV
< LOQ, CBN
ND, Δ8-THC
ND, THCV

Density (g/ml): 0.9452
Moisture Content: NT

ND = Not Detected NT = Not Tested

* Totals account for decarboxilation of the acid and equal *XXX + (XXXA * 0.877)*
For example: Total THC = Δ9-THC + (THCA * 0.877)

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Report Date	5/21/2020
Sample ID	G06A
Sample Name	500MG/250MG Broad Spectrum CBD Oil
Internal Sample ID	200515-120-8
Lab Batch ID	200518-1
Date of Analysis	5/18/2020

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 Intrument 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
Etoxazole	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
Flonicamid	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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Report Date	5/21/2020
Sample ID	G06A
Sample Name	500MG/250MG Broad Spectrum CBD Oil
Internal Sample ID	200515-120-8
Lab Batch ID	200519-1
Date of Analysis	5/19/2020

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	0.77
Benzene	PASS	< LOQ	1.0	0.77
Chloroform	PASS	< LOQ	1.0	0.77
Ethylene oxide	PASS	< LOQ	1.0	0.77
Methylene chloride	PASS	< LOQ	1.0	0.77
Trichloroethylene	PASS	< LOQ	1.0	0.77
Acetone	PASS	33.011	5000	2.3
Acetonitrile	PASS	< LOQ	410	6.26
Butane	PASS	102.111	5000	0.77
Ethanol	PASS	< LOQ	5000	2.3
Ethyl acetate	PASS	< LOQ	5000	0.77
Ethyl ether	PASS	< LOQ	5000	0.77
Heptane	PASS	< LOQ	5000	0.77
Hexane	PASS	< LOQ	290	2.3
Isopropyl alcohol	PASS	44.993	5000	2.3
Methanol	PASS	231.996	3000	6.91
Pentane	PASS	< LOQ	5000	2.3
Propane	PASS	< LOQ	5000	20.74
Toluene	PASS	< LOQ	890	0.77
Total xylenes (ortho-, meta-, para-)	PASS	< LOQ	2170	0.77

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Report Date	5/21/2020
Sample ID	G06A
Sample Name	500MG/250MG Broad Spectrum CBD Oil
Internal Sample ID	200515-120-8
Lab Batch ID	200519-1
Date of Analysis	5/20/2020

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	0.1
Cadmium	PASS	< LOQ	0.2	0.1
Lead	PASS	< LOQ	0.5	0.1
Mercury	PASS	< LOQ	0.1	0.1

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Report Date	5/21/2020
Sample ID	G06A
Sample Type	500MG/250MG Broad Spectrum CBD Oil
Internal Sample ID	200515-120-8
Lab Batch ID	200519-1
Date of Analysis	5/18/2020

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	NT

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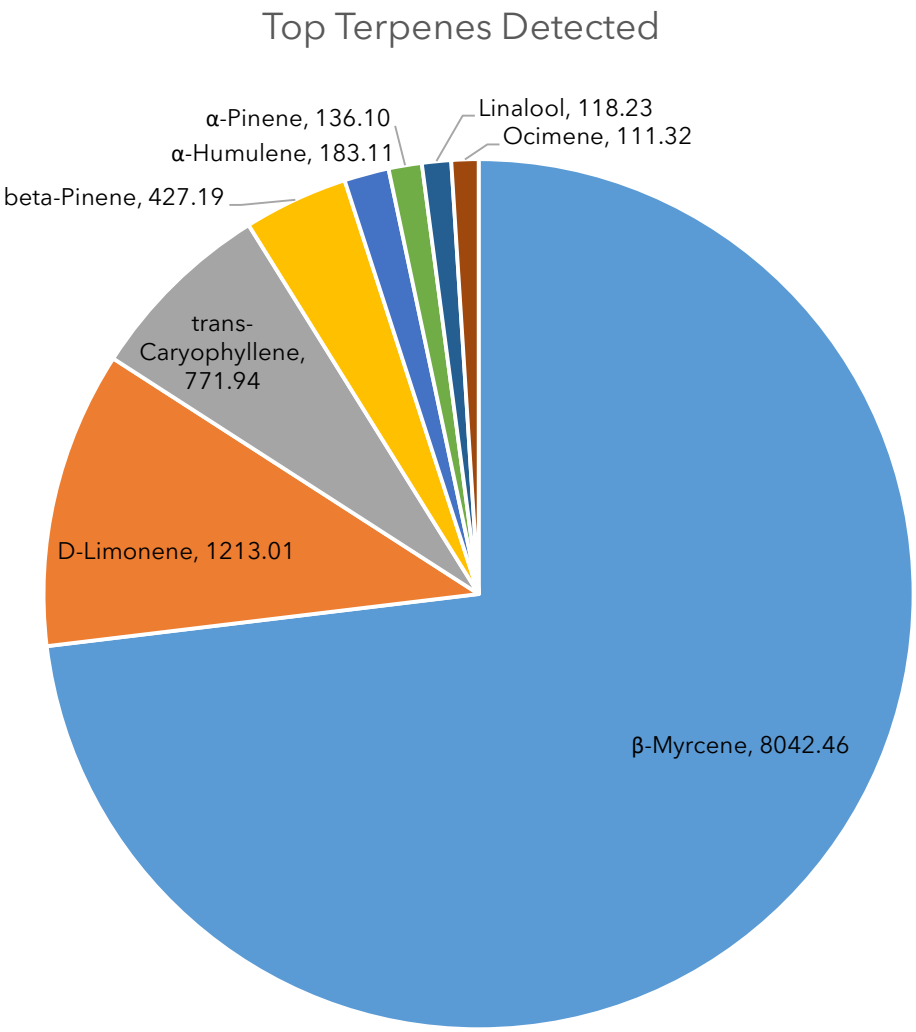
Report Date	5/21/2020
Sample ID	G06A
Sample Name	500MG/250MG Broad Spectrum CBD Oil
Internal Sample ID	200515-120-8
Lab Batch ID	200520-1
Date of Analysis	5/20/2020

Analysis: Terpenes

Instrumentation: GC-MS Intrument ID: GCMS1 Method: TM0006 (Twin Arbor Analytical Proprietary)



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Analysis: Terpenes (continued)

	LOQ (µg/g)	Results (µg/g)
α-Pinene	0.34	136.10
Camphene	0.33	50.59
Sabinene	0.99	< LOQ
β-Myrcene	1.00	8042.46
beta-Pinene	0.33	427.19
α-Phellandrene	1.00	< LOQ
(1S)-(+)-3-Cerene	0.99	< LOQ
α-Terpinene	0.33	7.46
D-Limonene	0.99	1213.01
Ocimene	0.79	111.32
Eucalyptol	1.00	10.94
γ-Terpinene	0.33	10.37
Terpinolene	0.99	40.64
Sabinene Hydrate	1.00	< LOQ
Linalool	1.00	118.23
Fenchone	0.22	35.70
(1R)-endo-(+)-Fenchyl alcohol	0.33	61.59
(-)-Isopulegol	2.99	< LOQ
Camphor	0.33	4.89
Isoborneol	2.99	< LOQ
dl-Menthol	1.00	< LOQ
Borneol	0.22	15.39
α-Terpineol	0.81	44.62
γ-Terpineol	0.55	< LOQ
Nerol	2.99	< LOQ
Geraniol	8.94	< LOQ
(+)-Pulegone	0.99	< LOQ
Geranyl acetate	2.98	< LOQ
α-Cedrene	0.33	< LOQ
trans-Caryophyllene	3.00	771.94
α-Humulene	0.33	183.11
α-Farnesene	26.94	< LOQ
Valencene	3.00	< LOQ
cis-Nerolidol	2.99	< LOQ
trans-Nerolidol	3.00	< LOQ
Guaiol	0.99	< LOQ
(-)-Caryophyllene oxide	8.98	< LOQ
(+)-Cedrol	1.00	< LOQ
(-)-α-Bisabolol	2.99	< LOQ

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