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1 HARLEY STREET
MARYLEBONE
LONDON, UK W1G 9QD

Certificate of Analysis

ACS | CANNABIS & HEMP
 LABORATORY | BEYOND COMPLIANCE

Order #: BUD200826-030012 Order Date: 2020-08-26 Collection Date: 2020-08-31 Report Date: 2020-09-18

Batch #: BT010-0010
 Sample #: AAA0043
 Specimen Type: CBD/HEMP Derivative Products (Ingestion)
 Extracted From: Industrial Hemp
 Description: Broad Spectrum 10% CBD Oil

Method: SOP-3



Potency Tested	Terpenes Tested	Heavy Metals Passed
Mycotoxins Passed	Pesticides Passed	Residual Solvents Passed
Pathogenic Passed	Microbiology (qPCR) Passed	Flavonoids Tested

Total CBD 10.720%	Total THC Not Detected	Total CBG 0.430%
Total CBN Not Detected	Other Cannabinoids 0.678%	Total Cannabinoids 11.828%

Potency - 17 (Tested)

								(HPLC)			
Analyte	Result (mg/g)	(%)	LOQ (%)	Analyte	Result (mg/g)	(%)	LOQ (%)	Analyte	Result (mg/g)	(%)	LOQ (%)
CBC	3.434	0.343	0.001	CBCA	<LOQ	0.001		CBD	107.200	10.720	0.001
CBDA	<LOQ	0.001		CBDV	2.897	0.290	0.001	CBDVA	<LOQ	0.001	
CBG	4.296	0.430	0.001	CBGA	<LOQ	0.001		CBL	<LOQ	0.001	
CBN	<LOQ	0.001		CBNA	<LOQ	0.001		CBT	0.454	0.045	0.001
Delta-8 THC	<LOQ	0.001		Delta-9 THC	<LOQ	0.001		THCA-A	<LOQ	0.001	
THCV	<LOQ	0.001		THCVA	<LOQ	0.001		Total CBD	107.200	10.720	0.001
Total THC	<LOQ	0.001									

*Total CBD = CBD + (CBD-A * 0.877), *Total THC = THCA-A * 0.877 + Delta 9 THC, *CBG Total = (CBGA * 0.877) + CBG, *CBN Total = (CBNA * 0.877) + CBN, *Other Cannabinoids Total = CBC + CBDV + THC + THCVA, *Total Detected Cannabinoids = CBD Total + CBG Total + CBN Total + THC Total + CBC + CBDV + THC + THCVA (mg/g) = Milligram per Gram, , LOQ = Limit of Quantitation, , LOD = Limit of Detection

Xueli Gao

Xueli Gao
 Ph.D., DABT

Lab Toxicologist

Aixia Sun

Aixia Sun
 D.H.Sc., M.Sc., B.Sc., MT (AAB)

Principal Scientist

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Method: SOP-3



Terpenes - FL (Tested)

(GC/GCMS)

Analyte	Result (mg/g)	(%)	LOQ (%)	Analyte	Result (mg/g)	(%)	LOQ (%)	Analyte	Result (mg/g)	(%)	LOQ (%)
(+)-Cedrol	<LOQ		0.02	(R)-(+)-Limonene	0.520	0.052	0.02	3-Carene	<LOQ		0.02
Alpha-Bisabolol	<LOQ		0.02	alpha-Cedrene	<LOQ		0.02	alpha-Farnesene	<LOQ		0.01
alpha-Humulene	<LOQ		0.02	alpha-Phellandrene	<LOQ		0.02	Alpha-Pinene	0.960	0.096	0.02
beta-Farnesene	<LOQ		0.01	Beta-Myrcene	10.100	1.010	0.02	Alpha-Terpinene	<LOQ		0.02
Borneol	<LOQ		0.04	Camphene	<LOQ		0.02	Beta-Pinene	<LOQ		0.02
Caryophyllene oxide	<LOQ		0.02	cis-Nerolidol	<LOQ		0.02	Camphors	<LOQ		0.04
Fenchyl Alcohol	<LOQ		0.02	Farnesene	<LOQ		0.02	Eucalyptol	<LOQ		0.02
Guaiol	<LOQ		0.02	Gamma-Terpinene	<LOQ		0.02	Fenchone	<LOQ		0.02
Isopulegol	<LOQ		0.02	Hexahydrothymol	<LOQ		0.02	Geraniol	<LOQ		0.02
Ocimene	<LOQ		0.014	Linalool	<LOQ		0.02	Geranyl acetate	<LOQ		0.02
Sabinene Hydrate	0.070	0.007	0.02	Pulegone	<LOQ		0.02	Isoborneol	<LOQ		0.02
trans-beta-Ocimene	<LOQ		0.006	Terpineol	<LOQ		0.02	Nerol	<LOQ		0.02
				Trans-Caryophyllene	0.080	0.008	0.02	Sabinene	<LOQ		0.02
								Terpinolene	<LOQ		0.02
								trans-Nerolidol	<LOQ		0.02
								Valencene	<LOQ		0.02

(mg/g) = Milligram per Gram, , LOQ = Limit of Quantitation

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Lab Toxicologist

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 Extracted From: Industrial Hemp
 Description: Broad Spectrum 10% CBD Oil

Method: SOP-3



Heavy Metals (Passed) (ICP-MS)

Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)	Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)	Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)
Arsenic (As)	1500	<LOQ	100	Cadmium (Cd)	500	<LOQ	100	Lead (Pb)	500	<LOQ	100
Mercury (Hg)	3000	<LOQ	100								

(ppb) = Parts per Billion, (ppb) = (µg/kg), , LOQ = Limit of Quantitation

Mycotoxins (Passed) (LCMS/API/GCMS)

Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)	Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)	Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)
Aflatoxin B1	20	<LOQ	6	Aflatoxin B2	20	<LOQ	6	Aflatoxin G1	20	<LOQ	6
Aflatoxin G2	20	<LOQ	6	Aflatoxin Total	20	<LOQ	6	Ochratoxin A	20	<LOQ	12

(ppb) = Parts per Billion, (ppb) = (µg/kg), , LOQ = Limit of Quantitation

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Method: SOP-3

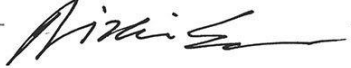


Pesticides FL V4 (Non-Inhalable) (Passed)

(LCMS/API/GCMS)

Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)	Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)	Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)
Abamectin	300	<LOQ	28.23	Acephate	3000	<LOQ	30	Acequinocyl	2000	<LOQ	48
Acetamiprid	3000	<LOQ	30	Aldicarb	100	<LOQ	30	Azoxystrobin	3000	<LOQ	10
Bifenazate	3000	<LOQ	30	Bifenthrin	500	<LOQ	30	Boscalid	3000	<LOQ	10
Captan	3000	<LOQ	30	Carbaryl	500	<LOQ	10	Carbofuran	100	<LOQ	10
Chlorantraniliprole	3000	<LOQ	10	Chlordane	100	<LOQ	10	Chlorfenapyr	100	<LOQ	30
Chloromequat Chloride	3000	<LOQ	10	Chlorpyrifos	100	<LOQ	30	Clofentezine	500	<LOQ	30
Cypermethrin	1000	<LOQ	30	Coumaphos	100	<LOQ	48	Cyfluthrin	1000	<LOQ	30
Dichlorvos	100	<LOQ	30	Daminozide	100	<LOQ	30	Diazinon	200	<LOQ	30
Ethoprophos	100	<LOQ	30	Dimethoate	100	<LOQ	30	Dimethomorph	3000	<LOQ	48
Fenhexamid	3000	<LOQ	10	Etofenprox	100	<LOQ	30	Etoxazole	1500	<LOQ	30
Fipronil	100	<LOQ	30	Fenoxycarb	100	<LOQ	30	Fenpyroximate	2000	<LOQ	30
Hexythiazox	2000	<LOQ	30	Fonicamid	2000	<LOQ	30	Fludioxonil	3000	<LOQ	48
Kresoxim Methyl	1000	<LOQ	30	Imazalil	100	<LOQ	30	Imidacloprid	3000	<LOQ	30
Methiocarb	100	<LOQ	30	Malathion	2000	<LOQ	30	Metalaxyl	3000	<LOQ	10
Mevinphos	100	<LOQ	10	Methomyl	100	<LOQ	30	methyl-Parathion	100	<LOQ	10
Oxamyl	500	<LOQ	30	Myclobutanil	3000	<LOQ	30	Naled	500	<LOQ	30
Permethrin	1000	<LOQ	30	Pacllobutrazol	100	<LOQ	30	Pentachloronitrobenzene	200	<LOQ	10
Phosmet	200	<LOQ	30	Permethrinincis	1000	<LOQ	30	Permethrintrans	1000	<LOQ	30
Propiconazole	1000	<LOQ	30	Piperonylbutoxide	3000	<LOQ	30	Prallethrin	400	<LOQ	30
PyrethrinsCinerin 1	1000	<LOQ	30	Propoxur	100	<LOQ	30	Pyrethrins	1000	<LOQ	30
PyrethrinsJasmolin 2	1000	<LOQ	30	PyrethrinsCinerin 2	1000	<LOQ	30	PyrethrinsJasmolin 1	1000	<LOQ	30
Pyridaben	3000	<LOQ	30	PyrethrinsPyrethrin 1	1000	<LOQ	30	PyrethrinsPyrethrin 2	1000	<LOQ	30
Spinosyn A	3000	<LOQ	10	Spinetoram	3000	<LOQ	10	Spinosad	3000	<LOQ	30
Spirotetramat	3000	<LOQ	30	Spinosyn D	3000	<LOQ	10	Spiromesifen	3000	<LOQ	30
Thiacloprid	100	<LOQ	30	Spiroxamine	100	<LOQ	30	Tebuconazole	1000	<LOQ	30
				Thiamethoxam	1000	<LOQ	30	Trifloxystrobin	3000	<LOQ	30

(ppt)  intitation
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Method: SOP-3



Residual Solvents (CBD) (Passed)

(GC/GCMS)

Analyte	Action Level (ppm)	Result (ppm)	LOQ (ppm)	Analyte	Action Level (ppm)	Result (ppm)	LOQ (ppm)	Analyte	Action Level (ppm)	Result (ppm)	LOQ (ppm)
1,1-Dichloroethene	8	<LOQ	0.132	1,2-dichloroethane	5	<LOQ	0.032	Acetone	5000	<LOQ	12
Benzene	2	<LOQ	0.016	Butanes	2000	<LOQ	13.32	Acetonitrile	410	<LOQ	0.96
Ethanol	5000	<LOQ	16	Ethyl Acetate	5000	<LOQ	6.4	Chloroform	60	<LOQ	0.032
Ethylene Oxide	5	<LOQ	0.32	Heptane	5000	<LOQ	8	Ethyl Ether	5000	<LOQ	8
Isopropyl alcohol	500	<LOQ	8	Methanol	3000	<LOQ	4	Hexane	290	<LOQ	0.8
Naphtha		<LOQ	6.4	Pentane	5000	<LOQ	12	Methylene chloride	600	<LOQ	2
Petroleum Ether-1	400	<LOQ	6.4	Petroleum Ether-2	400	<LOQ	6.4	Petroleum Ether-3	400	<LOQ	6.4
Propane	2100	<LOQ	26.668	Toluene	890	<LOQ	2.4	Total Xylenes	2170	<LOQ	7.2
Trichloroethylene	80	<LOQ	0.4	Xylenes(o)	2170	<LOQ	7.2	Xylenes(p/m)	2170	<LOQ	7.2

(ppm) = Parts per Million, (ppm) = (µg/g), LOQ = Limit of Quantitation

Pathogenic SAE (qPCR) (Passed)

(qPCR)

Analyte	Result (cfu/g)	Analyte	Result (cfu/g)	Analyte	Result (cfu/g)
Aspergillus (Flavus, Fumigatus, Niger, Terreus)	Absence in 1g	Pseudomonas aeruginosa	Absence in 1g	Staphylococcus aureus	Absence in 1g

(cfu/g) = Colony Forming Unit per Gram

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Method: SOP-3



Total Yeast and Mold (Passed)

(qPCR)

Analyte	Action Level (cfu/g)	Result
Total Yeast/Mold	100000	Passed

(cfu/g) = Colony Forming Unit per Gram

Flavonoids (Tested)

(LCMS/MS)

Analyte	Result (ppm)	LOQ (ppm)	Analyte	Result (ppm)	LOQ (ppm)	Analyte	Result (ppm)	LOQ (ppm)
Apigenin	<LOQ	4	Baicalin	<LOQ	8	Beta sitosterol	78.790	5
Cannflavin A	<LOQ	3.91	Cannflavin B	<LOQ	4.84	Cannflavin C	<LOQ	2.36
Chrysin	<LOQ	2.5	Fisetin	<LOQ	5	Kaempferol	<LOQ	1
Luteolin	<LOQ	2.5	Orientin	<LOQ	5	Quercetin	<LOQ	2.23
Rutin	<LOQ	7.81	Vitexin	<LOQ	4	Wogonin	<LOQ	0.5

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