

BENEFICIAL BEGINNINGS
LLC
812 W 17TH ST
BLDG A
OGDEN, UT 84404

Certificate of Analysis

ACS | CANNABIS & HEMP
 LABORATORY | BEYOND COMPLIANCE

Order #: BEN200730-050029 **Order Date:** 2020-07-30 **Collection Date:** 2020-08-03 **Report Date:** 2020-08-21

Batch #: 100015C0720
Sample #: AAAK377
Specimen Type: CBD/HEMP Derivative Products (Ingestion)
Extracted From: Hemp
Description: Flavorless

Initial Gross Weight: 54.757 g
Method: SOP-3



Potency Tested	Heavy Metals Passed	Mycotoxins Passed
Pesticides Passed	Residual Solvents Passed	Pathogenic Microbiology Tested
Listeria Monocytogenes Passed		



The photos on this report are of a sample collected by the lab and may vary from the final packaging.

Total CBD 7.292%	Total THC Not Detected	Total CBG Not Detected
Total CBN Not Detected	Other Cannabinoids 0.026%	Total Cannabinoids 7.318%

Potency - 11 (Tested)

(HPLC/LCMS)

Analyte	Result (mg/g)	(%)	LOQ (%)	Analyte	Result (mg/g)	(%)	LOQ (%)	Analyte	Result (mg/g)	(%)	LOQ (%)
CBC	<LOQ		0.001	CBD	72.920	7.292	0.001	CBDA	<LOQ		0.001
CBDV	0.255	0.026	0.001	CBG	<LOQ		0.001	CBGA	<LOQ		0.001
CBN	<LOQ		0.001	Delta-8 THC	<LOQ		0.001	Delta-9 THC	<LOQ		0.001
THCA-A	<LOQ		0.001	THCV	<LOQ		0.001	Total CBD	72.920	7.292	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 + THCV + THCV-A, *Total Detected Cannabinoids = CBD Total + CBG Total + CBN Total + THC Total + CBC + CBDV + THC + THCV + THCV-A (mg/g) = Milligram per Gram, LOQ = Limit of Quantitation, LOD = Limit of Detection

Xueli Gao
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Lab Toxicologist

Aixia Sun
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Principal Scientist

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Heavy Metals (For UT Clients ONLY) (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)	2000	<LOQ	100	Cadmium (Cd)	820	<LOQ	100	Lead (Pb)	1200	<LOQ	100
Mercury (Hg)	400	<LOQ	100								

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

Mycotoxin - Utah (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	Ochratoxin A	20	<LOQ	12				

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

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Pesticides (UT Levels) (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	500	<LOQ	28.23	Acephate	400	<LOQ	30	Acequinocyl	2000	<LOQ	48
Acetamiprid	200	<LOQ	30	Aldicarb	400	<LOQ	30	Azoxystrobin	200	<LOQ	10
Bifentazate	200	<LOQ	30	Bifenthrin	200	<LOQ	30	Boscalid	400	<LOQ	30
Carbaryl	200	<LOQ	10	Carbofuran	200	<LOQ	30	Chlorantraniliprole	200	<LOQ	30
Chlorfenapyr	1000	<LOQ	48	Chlorpyrifos	200	<LOQ	30	Clofentezine	200	<LOQ	30
Cyfluthrin	1000	<LOQ	30	Cypermethrin	1000	<LOQ	30	Daminozide	1000	<LOQ	30
Diazinon	200	<LOQ	30	Dichlorvos	100	<LOQ	30	Dimethoate	200	<LOQ	30
Ethoprophos	200	<LOQ	30	Etofenprox	400	<LOQ	30	Etoazole	200	<LOQ	30
Fenoxycarb	200	<LOQ	30	Fenpyroximate	400	<LOQ	30	Fipronil	400	<LOQ	30
Flonicamid	1000	<LOQ	30	Fludioxonil	400	<LOQ	30	Hexythiazox	1000	<LOQ	30
Imazalil	200	<LOQ	30	Imidacloprid	400	<LOQ	30	Kresoxim Methyl	400	<LOQ	30
Metalaxyl	200	<LOQ	10	Methiocarb	200	<LOQ	30	Methomyl	400	<LOQ	30
MGK-264	200	<LOQ	48	Myclobutanil	200	<LOQ	30	Naled	500	<LOQ	30
Oxamyl	1000	<LOQ	30	Paclobutrazol	400	<LOQ	30	Phosmet	200	<LOQ	30
Piperonylbutoxide	2000	<LOQ	30	Prallethrin	200	<LOQ	30	Propiconazole	400	<LOQ	30
Propoxur	200	<LOQ	30	Pyrethrins	1000	<LOQ	30	Pyridaben	200	<LOQ	30
Spinosad	200	<LOQ	30	Spiromesifen	200	<LOQ	30	Spirotetramat	200	<LOQ	30
Spiroxamine	400	<LOQ	30	Tebuconazole	400	<LOQ	30	Thiacloprid	200	<LOQ	30
Thiamethoxam	200	<LOQ	30	Trifloxystrobin	200	<LOQ	30				

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

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Residual Solvents UT - Beneficial Beginnings (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-Butanol	5000	<LOQ	6.4	1-Pentanol	5000	<LOQ	0.32	1-Propanol	5000	<LOQ	8
1,2-Dimethoxyethane	100	<LOQ	6.4	1,4-Dioxane	380	<LOQ	8	2-Butanol	5000	<LOQ	8
2-Methylpentane	290	<LOQ	6.4	2-Ethoxyethanol	160	<LOQ	4	2-methylbutane	5000	<LOQ	2
2,3-dimethylbutane	290	<LOQ	26.668	2-Propanol (IPA)	5000	<LOQ	6.4	2,2-dimethylbutane	290	<LOQ	12
Butane	5000	<LOQ	13.32	3-Methylpentane	290	<LOQ	2.4	Acetone	5000	<LOQ	12
Dichloromethane	600	<LOQ	0.8	Acetonitrile	410	<LOQ	0.96	Benzene	2	<LOQ	0.016
Ethyl Ether	5000	<LOQ	8	Cumene	70	<LOQ	0.032	Cyclohexane	3880	<LOQ	0.032
Ethylene Oxide	50	<LOQ	0.32	Dimethyl sulfoxide	5000	<LOQ	6.4	Ethanol	5000	<LOQ	16
Methanol	3000	<LOQ	4	Ethylbenzene	1000	<LOQ	6.4	Ethyl Acetate	5000	<LOQ	6.4
N,N-dimethylacetamide	1090	<LOQ	6.4	Heptane	5000	<LOQ	8	Ethylene glycol	620	<LOQ	6.4
Sulfolane	160	<LOQ	6.4	Methylpropane	5000	<LOQ	2	Isopropyl acetate	5000	<LOQ	8
Total Xylenes	1000	<LOQ	7.2	N,N-dimethylformamide	880	<LOQ	0.132	n-Hexane	290	<LOQ	0.8
				Tetrahydrofuran	720	<LOQ	6.4	Pentane	5000	<LOQ	12
								Propane	5000	<LOQ	26.668
								Pyridine	100	<LOQ	6.4
								Toluene	890	<LOQ	2.4

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

Pathogenic Microbiology - SE (MicroArray) (Tested)

(Micro Array)

Analyte	Result (cfu/g)	Analyte	Result (cfu/g)
Salmonella	Absence in 1g	STEC E. Coli	Absence in 1g

(cfu/g) = Colony Forming Unit per Gram

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Listeria Monocytogenes (Passed)

(qPCR)

Analyte	Result
Listeria	Absence
Monocytogenes	in 1g

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