

**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 #:** 200015C0720  
**Sample #:** AAAK378  
**Specimen Type:** CBD/HEMP Derivative Products (Ingestion)  
**Extracted From:** Hemp  
**Description:** Flavorless Coconut Oil

**Initial Gross Weight:** 55 g  
**Method:** SOP-3



<b>Potency Tested</b>	<b>Heavy Metals Passed</b>	<b>Mycotoxins Passed</b>
<b>Pesticides Passed</b>	<b>Residual Solvents Passed</b>	<b>Pathogenic Microbiology Tested</b>
<b>Listeria Monocytogenes Passed</b>		



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

<b>Total CBD</b> 14.210%	<b>Total THC</b> Not Detected	<b>Total CBG</b> Not Detected
<b>Total CBN</b> Not Detected	<b>Other Cannabinoids</b> 0.044%	<b>Total Cannabinoids</b> 14.254%

**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	142.100	14.210	0.001	CBDA	<LOQ		0.001
CBDV	0.440	0.044	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	<b>Total CBD</b>	142.100	14.210	0.001
<b>Total THC</b>	<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 + THCV + THCV-A (mg/g) = Milligram per Gram, , LOQ = Limit of Quantitation, , LOD = Limit of Detection

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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
Bifenazate	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	Etoxazole	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				

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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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