



12423 NE Whitaker Way  
 Portland, OR 97230  
 503-254-1794



**Report Number:** 20-006041/D02.R00  
**Report Date:** 06/17/2020  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 06/11/20 10:51

**Customer:** Austin and Kat  
**Product identity:** Hemp Oil Extract w/ Naturally Occurring CBD  
**Client/Metric ID:** HI1023/0083-01-001  
**Laboratory ID:** 20-006041-0001 **Sample Date:** 06/09/20 18:30

### Summary

#### Potency:

Analyte	Result (%)		
CBD	53.3		CBD-Total 53.3%
CBC	5.66		Δ9-THC-Total <LOQ
CBN	2.45		(Reported in percent of total sample)
CBG <sup>+</sup>	1.63		
CBDV <sup>+</sup>	0.792		
CBL <sup>+</sup>	0.327		

#### Residual Solvents:

All analytes passing and less than LOQ.

#### Pesticides:

All analytes passing and less than LOQ.

#### Metals:

Less than LOQ for all analytes.

#### Microbiology:

Analyte	Result	Limits
Aerobic Plate Count	290	

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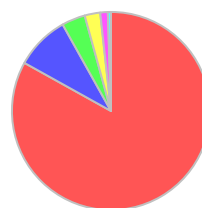
**Customer:** Austin and Kat

**Product identity:** Hemp Oil Extract w/ Naturally Occurring CBD  
**Client/Metric ID:** HI1023/0083-01-001  
**Sample Date:** 06/09/20 18:30  
**Laboratory ID:** 20-006041-0001  
**Relinquished by:** Received By Mail  
**Temp:** 21.4 °C

### Sample Results

Potency Method J AOAC 2015 V98-6 (mod) Batch: 2005063 Analyze: 6/16/20 4:13:00 AM

Analyte	As Received	Dry weight	LOQ	Notes
CBC	5.66		0.0973	
CBC-A <sup>†</sup>	< LOQ		0.0973	
CBC-Total <sup>†</sup>	5.66		0.183	
CBD	53.3		0.973	
CBD-A	< LOQ		0.0973	
CBD-Total	53.3		1.06	
CBDV <sup>†</sup>	0.792		0.0973	
CBDV-A <sup>†</sup>	< LOQ		0.0973	
CBDV-Total <sup>†</sup>	0.792		0.182	
CBG <sup>†</sup>	1.63		0.0973	
CBG-A <sup>†</sup>	< LOQ		0.0973	
CBG-Total	1.63		0.182	
CBL <sup>†</sup>	0.327		0.0973	
CBN	2.45		0.0973	
Δ8-THC <sup>†</sup>	0.121		0.0973	
Δ9-THC	< LOQ		0.0973	
THC-A	< LOQ		0.0973	
THC-Total	0.121		0.183	
THCV <sup>†</sup>	< LOQ		0.0973	
THCV-A <sup>†</sup>	< LOQ		0.0973	
THCV-Total <sup>†</sup>	< LOQ		0.182	
<b>Total Cannabinoids<sup>†</sup></b>	<b>64.3</b>			



- CBD
- CBC
- CBN
- CBG
- CBDV
- CBL

### Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
Aerobic Plate Count	290		cfu/g	10	2004932	06/15/20	AOAC 990.12 (Petrifilm)	X
E.coli	< LOQ		cfu/g	10	2004933	06/15/20	AOAC 991.14 (Petrifilm)	X
Total Coliforms	< LOQ		cfu/g	10	2004933	06/15/20	AOAC 991.14 (Petrifilm)	X
Staphylococcus aureus	< LOQ		cfu/g	10	2004938	06/14/20	AOAC 2003.07	X
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2004937	06/15/20	AOAC 2014.05 (RAPID)	X
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2004937	06/15/20	AOAC 2014.05 (RAPID)	X
Salmonella spp.	Negative		/10g		2004939	06/14/20	AOAC 2016.01	X

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Solvents		Method EPA5021A				Units $\mu\text{g/g}$	Batch 2004904	Analyze 06/15/20 08:49 AM			
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
1,4-Dioxane	< LOQ	380	100	pass		2-Butanol	< LOQ	5000	200	pass	
2-Ethoxyethanol	< LOQ	160	30.0	pass		2-Methylbutane	< LOQ		200		
2-Methylpentane	< LOQ		30.0			2-Propanol (IPA)	< LOQ	5000	200	pass	
2,2-Dimethylbutane	< LOQ		30.0			2,2-Dimethylpropane	< LOQ		200		
2,3-Dimethylbutane	< LOQ		30.0			3-Methylpentane	< LOQ		30.0		
Acetone	< LOQ	5000	200	pass		Acetonitrile	< LOQ	410	100	pass	
Benzene	< LOQ	2.00	1.00	pass		Butanes (sum)	< LOQ	5000	400	pass	
Cyclohexane	< LOQ	3880	200	pass		Ethanol <sup>l</sup>	< LOQ		200		
Ethyl acetate	< LOQ	5000	200	pass		Ethyl benzene	< LOQ		200		
Ethyl ether	< LOQ	5000	200	pass		Ethylene glycol	< LOQ	620	200	pass	
Ethylene oxide	< LOQ	50.0	30.0	pass		Hexanes (sum)	< LOQ	290	150	pass	
Isopropyl acetate	< LOQ	5000	200	pass		Isopropylbenzene	< LOQ	70.0	30.0	pass	
m,p-Xylene	< LOQ		200			Methanol	< LOQ	3000	200	pass	
Methylene chloride	< LOQ	600	200	pass		Methylpropane	< LOQ		200		
n-Butane	< LOQ		200			n-Heptane	< LOQ	5000	200	pass	
n-Hexane	< LOQ		30.0			n-Pentane	< LOQ		200		
o-Xylene	< LOQ		200			Pentanes (sum)	< LOQ	5000	600	pass	
Propane	< LOQ	5000	200	pass		Tetrahydrofuran	< LOQ	720	100	pass	
Toluene	< LOQ	890	100	pass		Total Xylenes	< LOQ		400		
Total Xylenes and Ethyl	< LOQ	2170	600	pass							

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Pesticides											
Method AOAC 2007.01 & EN 15662 (mod) Units mg/kg Batch 2004981 Analyze 06/15/20 03:09 PM											
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin	< LOQ	0.50	0.250	pass		Acephate	< LOQ	0.40	0.250	pass	
Acequinocyl	< LOQ	2.0	1.00	pass		Acetamiprid	< LOQ	0.20	0.100	pass	
Aldicarb	< LOQ	0.40	0.200	pass		Azoxystrobin	< LOQ	0.20	0.100	pass	
Bifenazate	< LOQ	0.20	0.100	pass		Bifenthrin	< LOQ	0.20	0.100	pass	
Boscalid	< LOQ	0.40	0.200	pass		Carbaryl	< LOQ	0.20	0.100	pass	
Carbofuran	< LOQ	0.20	0.100	pass		Chlorantraniliprole	< LOQ	0.20	0.100	pass	
Chlorfenapyr	< LOQ	1.0	0.500	pass		Chlorpyrifos	< LOQ	0.20	0.100	pass	
Clofentezine	< LOQ	0.20	0.100	pass		Cyfluthrin	< LOQ	1.0	0.500	pass	
Cypermethrin	< LOQ	1.0	0.500	pass		Daminozide	< LOQ	1.0	0.500	pass	
Diazinon	< LOQ	0.20	0.100	pass		Dichlorvos	< LOQ	1.0	0.500	pass	
Dimethoate	< LOQ	0.20	0.100	pass		Ethoprophos	< LOQ	0.20	0.100	pass	
Etofenprox	< LOQ	0.40	0.200	pass		Etoxazole	< LOQ	0.20	0.100	pass	
Fenoxycarb	< LOQ	0.20	0.100	pass		Fenpyroximate	< LOQ	0.40	0.200	pass	
Fipronil	< LOQ	0.40	0.200	pass		Fonicamid	< LOQ	1.0	0.400	pass	
Fludioxonil	< LOQ	0.40	0.200	pass		Hexythiazox	< LOQ	1.0	0.400	pass	
Imazalil	< LOQ	0.20	0.100	pass		Imidacloprid	< LOQ	0.40	0.200	pass	
Kresoxim-methyl	< LOQ	0.40	0.200	pass		Malathion	< LOQ	0.20	0.100	pass	
Metalaxyl	< LOQ	0.20	0.100	pass		Methiocarb	< LOQ	0.20	0.100	pass	
Methomyl	< LOQ	0.40	0.200	pass		MGK-264	< LOQ	0.20	0.100	pass	
Myclobutanil	< LOQ	0.20	0.100	pass		Naled	< LOQ	0.50	0.250	pass	
Oxamyl	< LOQ	1.0	0.500	pass		Paclobutrazole	< LOQ	0.40	0.200	pass	
Parathion-Methyl	< LOQ	0.20	0.200	pass		Permethrin	< LOQ	0.20	0.100	pass	
Phosmet	< LOQ	0.20	0.100	pass		Piperonyl butoxide	< LOQ	2.0	1.00	pass	
Prallethrin	< LOQ	0.20	0.200	pass		Propiconazole	< LOQ	0.40	0.200	pass	
Propoxur	< LOQ	0.20	0.100	pass		Pyrethrin I (total)	< LOQ	1.0	0.500	pass	
Pyridaben	< LOQ	0.20	0.100	pass		Spinosad	< LOQ	0.20	0.100	pass	
Spiromesifen	< LOQ	0.20	0.100	pass		Spirotetramat	< LOQ	0.20	0.100	pass	
Spiroxamine	< LOQ	0.40	0.200	pass		Tebuconazole	< LOQ	0.40	0.200	pass	
Thiacloprid	< LOQ	0.20	0.100	pass		Thiamethoxam	< LOQ	0.20	0.100	pass	
Trifloxystrobin	< LOQ	0.20	0.100	pass							

Metals										
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes		
Arsenic	< LOQ		mg/kg	0.0471	2004994	06/15/20	AOAC 2013.06 (mod.)	X		
Cadmium	< LOQ		mg/kg	0.0471	2004994	06/15/20	AOAC 2013.06 (mod.)	X		
Lead	< LOQ		mg/kg	0.0471	2004994	06/15/20	AOAC 2013.06 (mod.)	X		
Mercury	< LOQ		mg/kg	0.0235	2004994	06/15/20	AOAC 2013.06 (mod.)	X		

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These test results are representative of the individual sample selected and submitted by the client.

**Abbreviations**

**Limits:** Action Levels per OAR-333-007-0400, OAR-333-007-0210, OAR-333-007-0220

**Limit(s) of Quantitation (LOQ):** The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

† = Analyte not NELAP accredited.

**Units of Measure**

cfu/g = Colony forming units per gram

µg/g = Microgram per gram

mg/kg = Milligram per kilogram = parts per million (ppm)

/10g = Per 10 grams

% = Percentage of sample

% wt = µg/g divided by 10,000

**Glossary of Qualifiers**

X: Not ORELAP accredited.

Approved Signatory

Derrick Tanner  
General Manager