



# Certificate of Analysis

## CANNABUSINESS LABORATORIES, LLC

### Customer:

Kentucky Heritage Hemp Co. LLC  
1251 Deatsville Rd

Cox's Creek, KY 40013

P\_0242

Received Date **10/20/2025**

Collection Date **10/17/2025**

COA Released **11/10/2025**

Comments

Sample ID **251020005**

Order Number **CB251020007**

Sample Name **Broad-Spectrum Organic  
CBD Oil**

External Sample ID

Batch Number **3201**

Product Type **Other**

Sample Type **Other**

### CANNABINOID PROFILE

Analyte	LOQ (%)	% Weight	mg/mL
CBC	0.01	ND	ND
CBD	0.01	4.645	43.20
CBDa	0.01	ND	ND
CBDV	0.01	0.020	0.187
CBG	0.01	ND	ND
CBGa	0.01	ND	ND
CBN	0.01	ND	ND
d8-THC	0.01	ND	ND
d9-THC	0.01	ND	ND
THCa	0.01	ND	ND
THCV			

<b>Total Cannabinoids</b>	<b>4.665</b>	<b>43.39</b>
<b>Total Potential THC</b>	<b>N/A</b>	<b>N/A</b>
<b>Total Potential CBD</b>	<b>4.645</b>	<b>43.20</b>
<b>Total Potential CBG</b>	<b>N/A</b>	<b>N/A</b>
<b>Ratio of Total Potential CBD to Total Potential THC</b>	<b>N/A</b>	
<b>Ratio of Total Potential CBG to Total Potential THC</b>	<b>N/A</b>	

\*Total Cannabinoids refers to the sum of all cannabinoids detected.

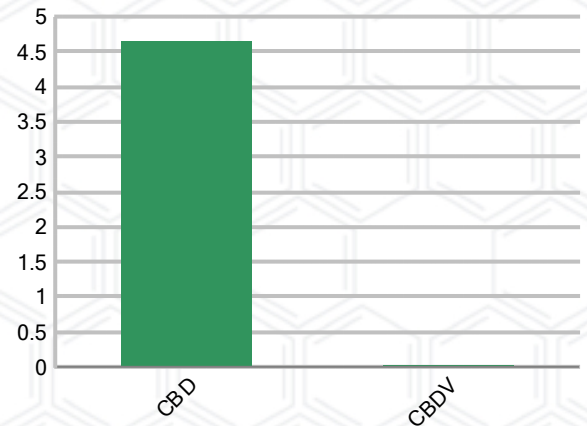
\*Total Potential CBD = (0.877 x CBDa) + CBD. \*Total Potential THC = (0.877 x THCa) + THC. \*Total Potential CBG = (0.877 x CBGa) + CBG.

\*Total Potential THC/CBD are calculated to take into account the loss of an acid group during decarboxylation.

### SAMPLE IMAGE



### CANNABINOIDS % Weight



*J. Hobgood*  
Laboratory Manager

SIGNATURE

Jamie Hobgood

LABORATORY MANAGER

11/10/2025 5:31 PM

DATE

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### Customer

Kentucky Heritage Hemp Co. LLC  
 1251 Deatsville Rd  
 Cox's Creek, KY 40013  
 P\_0242



Overall Batch Results	
Metals	Microbial + E. coli
Mycotoxins	Pesticides
Potency (mg/mL)	Residual Solvent

**Sample Name:** Broad-Spectrum Organic CBD Oil  
**Sample ID:** 251020005  
**Order Number:** CB251020007  
**Product Type:** Other  
**Sample Type:** Other  
**Received Date:** 10/20/2025  
**Batch Number:** 3201  
**Collection Date:** 10/17/2025

**COA released:** 11/10/2025 5:31 PM

### Potency (mg/mL)

Date Tested: 10/21/2025 Method: CB-SOP-028 Instrument: HPLC-PDA#1(HempAnalyzer4)

Analyte	Result	Units	LOQ	LOD	Limits	Pass / Fail
CBC (Cannabichromene)	ND	%	0.010			
CBC (Cannabichromene) mg/mL	ND	mg/mL	0.100			
CBD (Cannabidiol)	4.645	%	0.010			
CBD (Cannabidiol) mg/mL	43.20	mg/mL	0.100			
CBDa (Cannabidiolic Acid) mg/mL	ND	mg/mL	0.100			
CBDa (Cannabidiolic Acid)	ND	%	0.010			
CBDV (Cannabidivarin)	0.020	%	0.010			
CBDV (Cannabidivarin) mg/mL	0.187	mg/mL	0.100			
CBG (Cannabigerol)	ND	%	0.010			
CBG (Cannabigerol) mg/mL	ND	mg/mL	0.100			
CBGa (Cannabigerolic Acid)	ND	%	0.010			
CBGa (Cannabigerolic Acid) mg/mL	ND	mg/mL	0.100			
CBN (Cannabinol)	ND	%	0.010			
CBN (Cannabinol) mg/mL	ND	mg/mL	0.100			
D8-THC (D8-Tetrahydrocannabinol)	ND	%	0.010			
D8-THC (D8-Tetrahydrocannabinol) mg/mL	ND	mg/mL	0.100			
D9-THC (D9-Tetrahydrocannabinol)	ND	%	0.010			
D9-THC (D9-Tetrahydrocannabinol) mg/mL	ND	mg/mL	0.100			
THCa (Tetrahydrocannabinolic Acid)	ND	%	0.010			
THCa (Tetrahydrocannabinolic Acid) mg/mL	ND	mg/mL	0.100			

### Microbial + E. coli

Date Tested: 11/10/2025 Method: Instrument: qPCR

Analyte	Result	Units	LOQ	LOD	Limits	Pass / Fail
STEC (E. coli)	Negative					
Salmonella	Negative					
L. monocytogenes	Negative					
Yeast/Mold (qPCR)	Absence					
E. coli	0	CFUs				

M of U = Measurement, NT = Not tested, ND = Not detected; LOQ = Limit of Quantitation; <LOQ = Detected; >ULOL = Above upper limit of linearity; CFU/g = Colony forming units per 1 gram; TNTC = Too numerous to count

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Mycotoxins						
Date Tested: 11/07/2025	Method: CB-SOP-025	Instrument: LC-MS 8050 (#2)				

Analyte	Result	Units	LOQ	LOD	Limits	Pass / Fail
Aflatoxin B1	ND	ppm	0.010			
Aflatoxin B2	ND	ppm	0.010			
Aflatoxin G1	ND	ppm	0.010			
Aflatoxin G2	ND	ppm	0.010			
Ochratoxin A	ND	ppm	0.010			

Metals						
Date Tested: 11/07/2025	Method: CB-SOP-027	Instrument: iCAP-Qc				

Analyte	Result	Units	LOQ	LOD	Limits	Pass / Fail
Arsenic	<LOQ	ppm	0.500			
Cadmium	<LOQ	ppm	0.500			
Lead	<LOQ	ppm	0.500			
Mercury	<LOQ	ppm	3.000			

Pesticides						
Date Tested: 11/07/2025	Method: CB-SOP-025	Instrument: LC-MS 8050 (#2)				

Analyte	Result	Units	LOQ	LOD	Limits	Pass / Fail
Acephate	ND	ppm	0.010			
Aldicarb	ND	ppm	0.010			
Acetamiprid	ND	ppm	0.010			
Spiroxamine-1	ND	ppm	0.010			
Azoxystrobin	ND	ppm	0.010			
Bifenazate	ND	ppm	0.010			
Bifenthrin	ND	ppm	0.100			
Phosmet	ND	ppm	0.010			
AbamectinB1a	ND	ppm	0.010			
Carbaryl	ND	ppm	0.010			
Carbofuran	ND	ppm	0.010			
Chlorantraniliprole	ND	ppm	0.010			
Chlorpyrifos	ND	ppm	0.010			
Clofentezine	ND	ppm	0.010			
Daminozide	ND	ppm	0.010			
Diazinon	ND	ppm	0.010			
Dichlorvos	ND	ppm	0.100			
Dimethoate	ND	ppm	0.010			
Ethoprophos	ND	ppm	0.010			
Etofenprox	ND	ppm	0.010			
Etoxazole	ND	ppm	0.010			
Fenoxycarb	ND	ppm	0.010			
Fenpyroximate	ND	ppm	0.010			
Flonicamid	ND	ppm	0.100			
Fludioxonil	ND	ppm	0.010			

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Pesticides						
Date Tested: 11/07/2025	Method: CB-SOP-025	Instrument: LC-MS 8050 (#2)				

Analyte	Result	Units	LOQ	LOD	Limits	Pass / Fail
Hexythiazox	ND	ppm	0.010			
Imazalil	ND	ppm	0.010			
Imidacloprid	ND	ppm	0.010			
Kresoxym-methyl	ND	ppm	0.010			
Malathion	ND	ppm	0.010			
Metalaxyl	ND	ppm	0.010			
Methiocarb	ND	ppm	0.010			
Methomyl	ND	ppm	0.010			
Myclobutanil	ND	ppm	0.010			
Naled	ND	ppm	0.010			
Oxamyl	ND	ppm	0.010			
Paclobutrazol	ND	ppm	0.010			
Piperonyl Butoxide	ND	ppm	0.010			
Prallethrin	ND	ppm	0.010			
Propiconazole	ND	ppm	0.010			
Propoxur	ND	ppm	0.010			
Pyrethrin I	ND	ppm	0.010			
Pyridaben	ND	ppm	0.010			
Spinosyn A	ND	ppm	0.010			
Spiromesifen	ND	ppm	0.010			
Spirotetramat	ND	ppm	0.010			
Tebuconazole	ND	ppm	0.010			
Thiacloprid	ND	ppm	0.010			
Thiamethoxam	ND	ppm	0.010			
Trifloxystrobin	ND	ppm	0.010			
Permethrins	ND	ppm	0.010			
Spinosyn D	ND	ppm	0.010			
Boscalid	ND	ppm	0.010			
Coumaphos	ND	ppm	0.010			
Fenhexamid	ND	ppm	0.010			
Fipronil	ND	ppm	0.010			
Pyrethrin II	ND	ppm	0.010			
Spinetoram	ND	ppm	0.010			

Residual Solvent						
Date Tested: 11/07/2025	Method: CB-SOP-032	Instrument: GC-MS QP2020				

Analyte	Result	Units	LOQ	LOD	Limits	Pass / Fail
1-4 Dioxane	<LOQ	ug/g	62.550	62.55		
2,2-Dimethylbutane	<LOQ	ug/g	12.510	12.51		
2,3-Dimethylbutane	<LOQ	ug/g	12.510	12.51		
2-Butanol	<LOQ	ug/g	62.540	62.54		
2-Ethoxyethanol	<LOQ	ug/g	62.550	62.55		

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### Residual Solvent

Date Tested: 11/07/2025      Method: CB-SOP-032      Instrument: GC-MS QP2020

Analyte	Result	Units	LOQ	LOD	Limits	Pass / Fail
2-Methylbutane	<LOQ	ug/g	20.850	20.85		
2-Methylpentane	<LOQ	ug/g	12.510	12.51		
3-Methylpentane	<LOQ	ug/g	12.510	12.51		
Acetone	<LOQ	ug/g	62.550	62.55		
Acetonitrile	<LOQ	ug/g	62.550	62.55		
Benzene	<LOQ	ug/g	0.630	0.63		
Cyclohexane	<LOQ	ug/g	62.540	62.54		
Dichloromethane	<LOQ	ug/g	62.540	62.54		
Ethanol	<LOQ	ug/g	62.550	62.55		
Ethyl acetate	<LOQ	ug/g	62.550	62.55		
Ethyl ether	<LOQ	ug/g	62.540	62.54		
Ethylbenzene	<LOQ	ug/g	15.640	15.64		
Isobutane	<LOQ	ug/g	31.320	31.32		
Isopropanol	<LOQ	ug/g	62.550	62.55		
Isopropyl Acetate	<LOQ	ug/g	62.550	62.55		
m+p-Xylene	<LOQ	ug/g	31.280	31.28		
Methanol	<LOQ	ug/g	62.550	62.55		
n-Butane	<LOQ	ug/g	31.310	31.31		
n-Heptane	<LOQ	ug/g	62.540	62.54		
n-Hexane	<LOQ	ug/g	12.510	12.51		
n-Pentane	<LOQ	ug/g	20.850	20.85		
Neopentane	<LOQ	ug/g	20.870	20.87		
o-Xylene	<LOQ	ug/g	15.640	15.64		
Propane	<LOQ	ug/g	126.130	126.13		
Tetrahydrofuran	<LOQ	ug/g	62.550	62.55		
Toluene	<LOQ	ug/g	62.540	62.54		



*Jamie Hobgood*  
Laboratory Manager

Jamie Hobgood

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