

CannaBusiness Laboratories, LLC

2554 Palumbo Dr. Lexington, KY 40509

Certificate of Analysis

Customer:

Hartville Hemp Products, LLC

125 Rt 43

Hartville, OH 44632

Collected Date:

Received Date: **4/14/2021** COA Released: **4/27/2021**

Comments:

Sample ID: 210414012

Order Number: CB210414007

Sample Name: R3L9

External Sample ID: R2L8B9

Batch Number:

Product Type: Flower

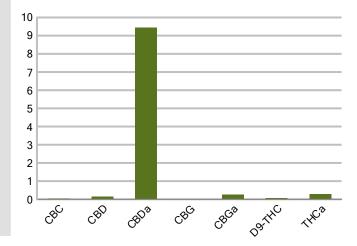
Sample Type: Flower

CANNABINOID PROFILE

Analyte	LOQ (%)	% weight	mg/g
СВС	0.01	0.039	0.390
CBD	0.01	0.139	1.390
CBDa	0.01	9.430	94.30
CBDV	0.01	ND	ND
CBG	0.01	0.025	0.252
CBGa	0.01	0.269	2.691
CBN	0.01	ND	ND
d8-THC	0.01	ND	ND
d9-THC	0.01	0.070	0.696
THCa	0.01	0.286	2.863
Total Cannab	inoids	10.2	102
Total Potenti	al THC	0.3	3
Total Potenti	al CBD	8.4	84
Total Potenti	al CBG	0.2	2



Cannabinoids (% weight)



Ratio of Total Potential CBD to Total Potential THC 28.00:1

Ratio of Total Potential CBG to Total Potential THC 0.67:1

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

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



Authorized Signature

HiB6001

Jamie Hobgood

04/27/2021 11:00 AM

DATE

A

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Accredited.

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



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Sample ID: 210414012 Sample Name: R3L9 Sample Type: Flower

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Hartville Hemp Products, LLC 125 Rt 43 Hartville, OH 44632



Overall Batch Results						
Pesticide	Moisture Content					
Potency	Water Activity					
Mycotoxins	Heavy Metals					
Microbial Screen	Residual Solvents					
Terpenoids						

Sample Name: R3L9

Sample ID: 210414012

Product Type: Flower **Sample Type:** Flower

Collected Date:

Received Date: 04/14/2021

Batch Number: Batch Size: Sample Size:

COA released: 04/27/2021 11:00 AM

Method: CB-SOP-028	
	400.0 /
	Method: CB-SOP-028

0.321 %	8.409 %	10.26 %	102.6 mg/g
Total THC	Total CBD	Total Cannabinoids	Total Cannabinoids

Analyte	Result	Units	LOQ	Result	Units
CBC (Cannabichromene)	0.039	%	0.010	0.390	mg/g
CBD (Cannabidiol)	0.139	%	0.010	1.390	mg/g
CBDa (Cannabidiolic Acid)	9.430	%	0.010	94.30	mg/g
CBDV (Cannabidivarin)	ND	%	0.010	ND	mg/g
CBG (Cannabigerol)	0.025	%	0.010	0.252	mg/g
CBGa (Cannabigerolic Acid)	0.269	%	0.010	2.691	mg/g
CBN (Cannabinol)	ND	%	0.010	ND	mg/g
D8-THC (D8-Tetrahydrocannabinol)	ND	%	0.010	ND	mg/g
D9-THC (D9-Tetrahydrocannabinol)	0.070	%	0.010	0.696	mg/g
THCa (Tetrahydrocannabinolic Acid)	0.286	%	0.010	2.863	mg/g

Terpenoids		
Date Tested: 04/23/2021	Method: CB-SOP-026	
Instrument:		- 1

Analyte	Result	Unit	LOQ	Result	Unit
alpha-Bisabolol	0.500	mg/g	0.100	0.0500	%
alpha-humulene	0.259	mg/g	0.100	0.0259	%
alpha-pinene	0.840	mg/g	0.100	0.0840	%
alpha-terpinene	<loq< td=""><td>mg/g</td><td>0.100</td><td><loq< td=""><td>%</td></loq<></td></loq<>	mg/g	0.100	<loq< td=""><td>%</td></loq<>	%
beta-caryophyllene	1.096	mg/g	0.100	0.1096	%
Beta-myrcene	<loq< td=""><td>mg/g</td><td>0.100</td><td><loq< td=""><td>%</td></loq<></td></loq<>	mg/g	0.100	<loq< td=""><td>%</td></loq<>	%
Beta-pinene	0.398	mg/g	0.100	0.0398	%
cis-Nerolidol	<loq< td=""><td>mg/g</td><td>0.100</td><td><loq< td=""><td>%</td></loq<></td></loq<>	mg/g	0.100	<loq< td=""><td>%</td></loq<>	%
Camphene	<loq< td=""><td>mg/g</td><td>0.100</td><td><loq< td=""><td>%</td></loq<></td></loq<>	mg/g	0.100	<loq< td=""><td>%</td></loq<>	%
d-Limonene	0.267	mg/g	0.100	0.0267	%
delta-3-Carene	<loq< td=""><td>mg/g</td><td>0.100</td><td><loq< td=""><td>%</td></loq<></td></loq<>	mg/g	0.100	<loq< td=""><td>%</td></loq<>	%
Eucalyptol	<loq< td=""><td>mg/g</td><td>0.100</td><td><loq< td=""><td>%</td></loq<></td></loq<>	mg/g	0.100	<loq< td=""><td>%</td></loq<>	%
gamma-Terpinene	<loq< td=""><td>mg/g</td><td>0.100</td><td><loq< td=""><td>%</td></loq<></td></loq<>	mg/g	0.100	<loq< td=""><td>%</td></loq<>	%
Geraniol	<loq< td=""><td>mg/g</td><td>0.100</td><td><loq< td=""><td>%</td></loq<></td></loq<>	mg/g	0.100	<loq< td=""><td>%</td></loq<>	%
Guaiol	<loq< td=""><td>mg/g</td><td>0.100</td><td><loq< td=""><td>%</td></loq<></td></loq<>	mg/g	0.100	<loq< td=""><td>%</td></loq<>	%
Isopulegol	<loq< td=""><td>mg/g</td><td>0.100</td><td><loq< td=""><td>%</td></loq<></td></loq<>	mg/g	0.100	<loq< td=""><td>%</td></loq<>	%
Linalool	0.123	mg/g	0.100	0.0123	%
Ocimene (mixture of isomers)	<loq< td=""><td>mg/g</td><td>0.100</td><td><loq< td=""><td>%</td></loq<></td></loq<>	mg/g	0.100	<loq< td=""><td>%</td></loq<>	%
p-Isopropyltoluene (p-Cymene)	<loq< td=""><td>mg/g</td><td>0.100</td><td><loq< td=""><td>%</td></loq<></td></loq<>	mg/g	0.100	<loq< td=""><td>%</td></loq<>	%
trans-beta-Ocimene	<loq< td=""><td>mg/g</td><td>0.100</td><td><loq< td=""><td>%</td></loq<></td></loq<>	mg/g	0.100	<loq< td=""><td>%</td></loq<>	%
trans-Nerolidol	<loq< td=""><td>mg/g</td><td>0.100</td><td><loq< td=""><td>%</td></loq<></td></loq<>	mg/g	0.100	<loq< td=""><td>%</td></loq<>	%
Terpinolene	<loq< td=""><td>mg/g</td><td>0.100</td><td><loq< td=""><td>%</td></loq<></td></loq<>	mg/g	0.100	<loq< td=""><td>%</td></loq<>	%

Pesticides			
Date Tested: 04/21/2021	Method: CB-SOP-025	Instrument:	

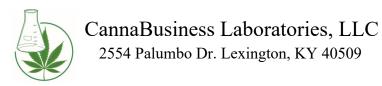
Analyte	Result Units	LOQ	Result Analy	/te	Result U	nits	LOQ	Result
Acephate	ND ppm	0.010	Ace	tamiprid	ND	ppm	0.010	
Aldicarb	ND ppm	0.010	Azo	xystrobin	ND	ppm	0.010	
Bifenazate	ND ppm	0.010	Bife	nthrin	ND	ppm	0.010	
Boscalid	ND ppm	0.010	Carl	baryl	ND	ppm	0.010	
Carbofuran	ND ppm	0.010	Chlo	orantraniliprole	ND	ppm	0.010	
Chlorpyrifos	ND ppm	0.010	Clof	entezine	ND	ppm	0.010	
Coumaphos	ND ppm	0.010	Dan	ninozide	ND	ppm	0.010	
Diazinon	ND ppm	0.010	Dich	nlorvos	ND	ppm	0.010	
Dimethoate	ND ppm	0.010	Etof	enprox	ND	ppm	0.010	
Etoxazole	ND ppm	0.010	Fen	hexamid	ND	ppm	0.010	
Fenoxycarb	ND ppm	0.010	Fen	pyroximate	ND	ppm	0.010	

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

CannaBusiness Laboratories

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Sample ID: 210414012 Sample Name: R3L9 Sample Type: Flower

04/27/2021

Date

11:00 AM

Time

Certificate of Analysis

Figronia	Pesticides								
Fipronii	Date Tested: 04/21/2021	Method: CB-SOP-025	Instrume	nt:					
Fudioxoni ND ppm	Analyte	Result Units	LOQ	Result	Analyte	Result Units	LOQ	Result	
Imazalil ND ppm 0.010 Imidacloprid ND ppm 0.010 Malathion ND ppm 0.010 Malathion ND ppm 0.010 Metalaxyl ND ppm 0.010 Methiocarb ND ppm 0.010 Methioryl ND ppm 0.010 Myclobutanil ND ppm 0.010 Myclobutanil ND ppm 0.010 Naled ND ppm 0.010 Oxamyl ND ppm 0.010 Paclobutazaci ND ppm 0.010 Propiocazole ND ppm 0.010 Preprintiri ND ppm 0.010 Pyrethrin ND ppm	Fipronil	ND ppm	0.010		Flonicamid	ND ppm	0.010		
Malathion ND ppm 0.010 Methocarb ND ppm 0.010 Methocarb ND ppm 0.010 Methocarb ND ppm 0.010 Methocarb ND ppm 0.010 Naled ND ppm 0.010 ND ppm ND ppm ND ppm	Fludioxonil	ND ppm	0.010		Hexythiazox	ND ppm	0.010		
Methocarb ND ppm 0.010 Methomy ND ppm 0.010 Myclobutanil ND ppm 0.010 Myclobutanil ND ppm 0.010 Naled ND ppm 0.010 Myclobutanil ND ppm 0.010 Paciobutrazol ND ppm 0.010 Phosmet ND ppm 0.010 Prallethrin ND ppm 0.010 Proportionazole ND ppm 0.010 Proportionazole ND ppm 0.010 Pyrethrin Pyrethrin ND ppm 0.010 Pyrethrin Pyrethrin ND ppm 0.010 Pyrethrin Pyreth	Imazalil	ND ppm	0.010		Imidacloprid	ND ppm	0.010		
Myclobutanii	Malathion	ND ppm	0.010		Metalaxyl	ND ppm	0.010		
Oxamy ND ppm 0.010 Paclobutrazol ND ppm 0.010 Phosmet ND ppm 0.010 Phosmet ND ppm 0.010 Prelethrin ND ppm 0.010 Propiconazole ND ppm 0.010 Prepropiconazole ND ppm 0.010 Prepropiconazole ND ppm 0.010 Prepropiconazole ND ppm 0.010 Prepropiconazole ND ppm 0.010 Preprintin ND ppm 0.010 Preprintin ND ppm 0.010 Preprintin ND ppm 0.010 Spiretoram ND ppm 0.010 Spiretoram ND ppm 0.010 Tebuconazole ND ppm 0.010 Thiaceloprid ND ppm 0.010 Tebuconazole ND ppm 0.010 Thiaceloprid ND ppm 0.010 Thiaceloprid ND ppm 0.010 Tebuconazole ND ppm 0.010 Thiaceloprid ND ppm 0.010 Tetropropiconazole ND ppm 0.010 Premethrins ND ppm ND ppm ND ppm	Methiocarb	ND ppm	0.010		Methomyl	ND ppm	0.010		
Phosmet	Myclobutanil	ND ppm	0.010		Naled	ND ppm	0.010		
Propiconazole ND ppm 0.010 Propoxur ND ppm 0.010 Pyrethrin ND ppm 0.010 Spinoteram ND ppm 0.010 Spinoteram ND ppm 0.010 Tebuconazole ND ppm 0.010 Thiacloprid ND ppm 0.010 Thiaclopri	Oxamyl	ND ppm	0.010		Paclobutrazol	ND ppm	0.010		
Pyrethrin ND ppm	Phosmet	ND ppm	0.010		Prallethrin	ND ppm	0.010		
Pyridaben ND ppm 0.010 Spinetoram ND ppm 0.010 Spiroselfermat ND ppm 0.010 Spiroselfermat ND ppm 0.010 Spiroselfermat ND ppm 0.010 Spiroselfermat ND ppm 0.010 ND ppm 0.010 Thisacloprid ND ppm 0.010 Thisacelprid ND ppm 0.010 Thisacelprid ND ppm 0.010 Thisacelprid ND ppm 0.010 Trifloxystrobin ND ppm 0.010 Spiroselfermathy Spiroselfermathy ND ppm 0.010 Spiroselfermathy Spiros	Propiconazole	ND ppm	0.010		Propoxur	ND ppm	0.010		
Spiromesifen ND ppm 0.010 Spirotetramat ND ppm 0.010 Tebuconazole ND ppm 0.010 Thisacloprid Thisacloprid ND ppm 0.010 Thisacloprid	Pyrethrin I	ND ppm	0.010		Pyrethrin II	ND ppm	0.010		
Tebuconazole	Pyridaben	ND ppm	0.010		Spinetoram	ND ppm	0.010		
Thiamethoxam	Spiromesifen	ND ppm	0.010		Spirotetramat	ND ppm	0.010		
Ethoprophos	Tebuconazole	ND ppm	0.010		Thiacloprid	ND ppm	0.010		
Permethrins	Thiamethoxam	ND ppm	0.010		Trifloxystrobin	ND ppm	0.010		
Spinosyn A	Ethoprophos	ND ppm	0.010		Kresoxym-methyl	ND ppm	0.010		
AbamectinB1a	Permethrins	ND ppm	0.010		Piperonyl Butoxide	ND ppm	0.010		
April Apri	Spinosyn A	ND ppm	0.010		Spiroxamine-1	ND ppm	0.010		
Nethod: CB-SOP-025 Instrument: Nethod: CB-SOP-027 Nethod: Nethod: CB-SOP-027 Nethod:	AbamectinB1a	ND ppm	0.010		Spinosyn D	ND ppm	0.010		
Analyte Result Units LOQ Result Analyte Result Units LOQ Result Ochratoxin B1 ND ppm 0.010 Aflatoxin B1 ND ppm 0.010 Aflatoxin B2 ND ppm 0.010 Aflatoxin G2 ND ppm 0.010 Aflatoxin B2 ND ppm 0.010 Aflatoxin G1 ND ppm 0.010 Aflatoxin B2 ND ppm 0.010 Aflatoxin G1 ND ppm 0.010 Aflatoxin B2 ND ppm 0.010 Aflatoxin G2 ND ppm 0.010 Aflatoxin B2 ND ppm Aflatoxin B2 ND ppm 0.010 Aflatoxin B2 N	Mycotoxins								
Ochratoxin A ND ppm 0.010 Aflatoxin B1 ND ppm 0.010 Aflatoxin G2 ND ppm 0.010 Aflatoxin B2 ND ppm 0.010 Aflatoxin G1 ND ppm 0.010 ND ppm 0.010 Metals Date Tested: 04/21/2021 Method: CB-SOP-027 Instrument: Analyte Result Units LOQ Result Analyte Result Units LOQ Result Units LOQ <td colsp<="" td=""><td>Date Tested: 04/21/2021</td><td>Method: CB-SOP-025</td><td>Instrume</td><td>nt:</td><td></td><td></td><td></td><td></td></td>	<td>Date Tested: 04/21/2021</td> <td>Method: CB-SOP-025</td> <td>Instrume</td> <td>nt:</td> <td></td> <td></td> <td></td> <td></td>	Date Tested: 04/21/2021	Method: CB-SOP-025	Instrume	nt:				
Affatoxin G2 ND ppm 0.010 Affatoxin B2 ND ppm 0.010 Affatoxin G1 ND ppm 0.010 Affatoxin B2 ND ppm 0.010 Metals Date Tested: 04/21/2021 Method: CB-SOP-027 Instrument: Analyte Result Units LOQ Result Analyte Result Units LOQ Result Units LOQ <t< th=""><th>Analyte</th><th>Result Units</th><th>LOQ</th><th>Result</th><th>Analyte</th><th>Result Units</th><th>LOQ</th><th>Result</th></t<>	Analyte	Result Units	LOQ	Result	Analyte	Result Units	LOQ	Result	
Aflatoxin G1 ND ppm 0.010 Metals Jack Tested: 04/21/2021 Method: CB-SOP-027 Instrument: Analyte Result Units LOQ Result Analyte Result Units LOQ Ppm 0.500 Cadmium < LOQ ppm 0.500 Lead < LOQ ppm 0.500 Mercury < LOQ ppm 3.000 Microbial Instrument: Analyte Result Units LOQ Result Units Re	Ochratoxin A	ND ppm	0.010		Aflatoxin B1	ND ppm	0.010		
Metals Date Tested: 04/21/2021 Method: CB-SOP-027 Instrument:	Aflatoxin G2	ND ppm	0.010		Aflatoxin B2	ND ppm	0.010		
Analyte Result Units LOQ Result Analyte Result Units LOQ Result Analyte Result Units LOQ Result Analyte Result Units LOQ Result Analyte Result Units LOQ Result Analyte Result Units LOQ Result Result Units LOQ Result Analyte Result Units LOQ Result Result Units Result Units LOQ Result Result Units Re	Aflatoxin G1	ND ppm	0.010						
Analyte Result Units LOQ Result Analyte Result Units LOQ Result Analyte Arsenic <loq ppm<="" td=""> 0.500 Cadmium <loq ppm<="" td=""> 0.500 Lead <loq ppm<="" td=""> 0.500 Mercury <loq ppm<="" td=""> 3.000 Microbial Date Tested: 04/22/2021 Method: Instrument: Analyte Result Units LOQ Result Analyte Result Units LOQ Result Analyte</loq></loq></loq></loq>	Metals								
Arsenic < LOQ ppm 0.500 Cadmium < LOQ ppm 0.500 Lead < LOQ ppm 0.500 Mercury < LOQ ppm 3.000 Microbial Date Tested: 04/22/2021 Method: Instrument: Analyte Result Units LOQ Result Analyte Result Units LOQ Result Analyte	Date Tested: 04/21/2021	Method: CB-SOP-027	Instrume	nt:					
Lead < LOQ ppm 0.500 Mercury < LOQ ppm 3.000 Microbial Date Tested: 04/22/2021 Method: Instrument: Analyte Result Units LOQ Result Analyte	Analyte	Result Units	LOQ	Result	Analyte	Result Units	LOQ	Result	
Analyte Result Units LOQ Result Units LOQ Result Analyte Result Units LOQ Result Analyte Result Units LOQ Result Analyte Result Units LOQ Result Un	Arsenic	<loq ppm<="" td=""><td>0.500</td><td></td><td>Cadmium</td><td><loq ppm<="" td=""><td>0.500</td><td></td></loq></td></loq>	0.500		Cadmium	<loq ppm<="" td=""><td>0.500</td><td></td></loq>	0.500		
Date Tested: 04/22/2021 Method: Instrument: Analyte Result Units LOQ Result Analyte Result Units LOQ Re	Lead	<loq ppm<="" td=""><td>0.500</td><td></td><td>Mercury</td><td><loq ppm<="" td=""><td>3.000</td><td></td></loq></td></loq>	0.500		Mercury	<loq ppm<="" td=""><td>3.000</td><td></td></loq>	3.000		
Analyte Result Units LOQ Result Analyte Result Units LOQ Re	Microbial								
	Date Tested: 04/22/2021	Method:	Instrume	nt:					
STEC (E. coli) Negative Salmonella Negative	Analyte	Result Units	LOQ	Result	Analyte	Result Units	LOQ	Result	
	STEC (E. coli)	Negative			Salmonella	Negative			
L. monocytogenes Negative Yeast/Mold (qPCR) 0 CFUs	L. monocytogenes	Negative			Yeast/Mold (qPCR)	0 CFUs			

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

Jamie Hobgood

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Authorized Signature

Laboratory Manager

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