

Laboratory Address: 232 S. Broadview St. Greenbrier, AR 72058 Telephone: (501) 679-2616

Oklahoma Location

Laboratory Address: 3680 E. Interstate 240 Service Rd. Oklahoma City, OK 73135 Telephone: (405) 595-0344

Email Address: Info@FASTLaboratories.com

CERTIFICATE OF ANALYSIS

Order Type: Medical Cannabis **Order ID:** OR2019-1977

Cultivar (Strain): B1 Cherry Wine

Hemp

Analyst: OL

Sample Date: 06/14/2019

Customer ID: 32

Customer Name: CBD Plus USA

Lab ID: SA2019-6556

Date Received: 06/14/2019

Remarks:

Sample Matrix: Industrial Hemp

CANNABINOID (POTENCY) PROFILE

Analysis Date/Time: 06/15/2019 1839 Method: HPLC/DAD (Internal Method-001)

Instrument: Agilent 1100

Moisture Content (%): 8.59

Harvest/Extract Lot: None

Harvest/Extract Batch: None

Date Completed: 06/19/2019

Water Activity (aw): 0.4988 @ 25.01°C

<u>Cannabinoid</u>	Result (%)	Result (mg/g)	Reporting Limit (mg/g)	Result (mg/mL)	Per Unit (mg)
CDD				(mg/mil)	
CBD	0.773	7.73	0.0502	-	8
CBDa	11.1	111	0.0502	-	111
CBDv	-	-	0.0502	-	-
Δ9-ΤΗС	-	-	0.0502	-	-
$\Delta 8$ -THC	-	-	0.0502	-	-
THCa	0.402	4.02	0.0502	-	4
THCv	-	-	0.0502	-	-
CBC	0.234	2.34	0.0502	-	2
CBG	-	-	0.0502	-	-
CBGa	0.0873	0.873	0.0502	-	0.873
CBN	-	-	0.0502	-	-
TOTAL	12.6	116			126



TOTAL	12.6	116	-	126
TOTAL THC	0.353	3.23	-	4
TOTAL CBD	10.5	96.4	-	105

"-" Not detected above RL.

UNIT MASS (g): 1

Recoveries for all analyte standards: 90-110% Replicate Uncertainties: <5% RSD, <20% RPD Sample/Reagent Blanks: <RL for all analytes

Deviations from standard operating procedure: None

Values for plant matter are adjusted for moisture content.

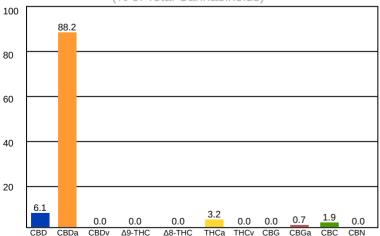
Total THC = (THCa x 0.877) + $\Delta 9$ -THC Total CBD = (CBDa \times 0.877) + CBD

Percentage results are reported by mass. mg/g results are reported as mass component per mass material.

Abbreviations: UV - Ultraviolet, HPLC - High Pressure Liquid Chromatography, RL - Reporting Limit, RPD -Relative Percent Difference, RSD - Relative Standard Deviation

Cannabinoid Distribution

(% of Total Cannabinoids)



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Analysis Date/Time: 06/15/2019 1839

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Hemp

Analyst: OL

Sample Date: 06/14/2019

Customer ID: 32

Customer Name: CBD Plus USA

Lab ID: SA2019-6556

Date Received: 06/14/2019

Sample Matrix: Industrial Hemp

Harvest/Extract Lot: None

Harvest/Extract Batch: None

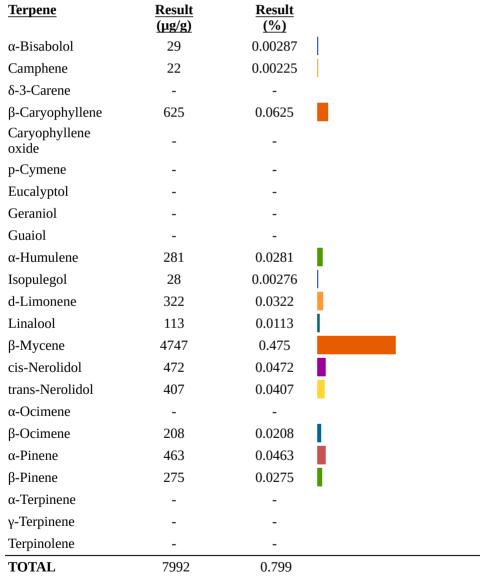
Date Completed: 06/19/2019

Remarks:

TERPENOID PROFILE

Method: HS/GC/FID (Internal Method-002) **Deviations from SOP:**

Instrument: Agilent 6890 None





Abbreviations: HS - Headspace, GC -Gas Chromatography, MS - Mass Spectrometry, RL - Reporting Limit

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"-" Not detected above RL

Reporting Limit (µg/g): 12.5



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Customer Name: CBD Plus USA

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Cultivar (Strain): B1 Cherry Wine

Hemp

Sample Date: 06/14/2019

Lab ID: SA2019-6556

Date Received: 06/14/2019

06/14/2019

Remarks:

Sample Matrix: Industrial Hemp

Date Completed: 06/19/2019

PESTICIDES PROFILE

Analysis Date/Time: 06/15/2019 1839 Method: LC/MS/MS and GC/MS Deviations from SOP:
Analyst: OL Instrument: Waters Acquity/TQD None

<u>Pesticide</u>	<u>Result</u> (μg/g)	Action Level (μg/g)	<u>Pesticide</u>	<u>Result</u> (μg/g)	Action Level (µg/g)
Abamectin (71751-41-2)	-	0.5	Imazalil (35554-44-0)	-	0.2
Acephate (30560-19-1)	-	0.4	Imidacloprid (138261-41-3)	-	0.4
Acequinocyl (57960-19-7)	-	2	Kresoxim-methyl* (143390-89-0)	-	0.4
Acetamiprid (135410-20-7)	-	0.2	Malathion (121-75-5)	-	0.2
Aldicarb (116-06-3)	-	0.4	Metalaxyl* (57837-19-1)	-	0.2
Azoxystrobin (131860-33-8)	-	0.2	Methiocarb (2032-65-7)	-	0.2
Bifenazate* (149877-41-8)	-	0.2	Methomyl (16752-77-5)	-	0.4
Bifenthrin* (82657-04-3)	-	0.2	Methyl parathion* (298-0-0)	-	0.2
Boscalid* (188425-85-6)	-	0.4	MGK 264* (113-48-4)	-	0.2
Carbaryl (63-25-2)	-	0.2	Myclobutanil (88671-89-0)	-	0.2
Carbofuran (1563-66-2)	-	0.2	Naled (300-76-5)	-	0.5
Chlorantraniliprole (800008-45-7)	-	0.2	Oxamyl (23135-22-0)	-	1
Chlorfenapyr* (122453-73-0)	-	1	Paclobutrazol* (76738-62-0)	-	0.4
Chlorpyrifos* (2921-88-2)	-	0.2	Permethrins* (52645-53-1)	-	0.2
Clofentezine (74115-24-5)	-	0.2	Phosmet* (732-11-6)	-	0.2
Cyfluthrin* (68359-37-5)	-	1	Piperonyl butoxide* (51-03-6)	-	2
Cypermethrin* (52315-07-8)	-	1	Prallethrins* (2331-36-9)	-	0.2
Daminozide (1596-84-5)	-	1	Propiconazole (60207-90-1))	-	0.4
DDVP (62-73-7)	-	0.1	Propoxur* (114-26-1)	-	0.2
Diazinon* (333-41-5)	-	0.2	Pyrethrins* (8003-34-7)	-	1
Dimethoate (60-51-5)	-	0.2	Pyridaben* (96489-71-3)	-	0.2
Ethoprophos* (13194-48-4)	-	0.2	Spinosad A (168316-95-8)	-	0.2
Etofenprox (80844-07-1)	-	0.4	Spinosad D (168316-95-8)	-	0.2
Etoxazole (153233-91-1)	-	0.2	Spiromesifen (283594-90-1)	-	0.2
Fenoxycarb (72490-01-8)	-	0.2	Spirotetramat (203313-25-1)	-	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.4	Spiroxamine (118134-30-8)	-	0.4
Fipronil* (120068-37-3)	-	0.4	Tebuconazole (80443-41-0)	-	0.4
Flonicamid (158062-67-0)	-	1	Thiacloprid (111988-49-9)	-	0.2
Fludioxinil (131341-86-1)	-	0.4	Thiamethoxam (153719-23-4)	-	0.2
Hexythiazox (78587-05-0)	-	1	Trifloxystrobin* (141517-21-7)	-	0.2



Color Key

RESULT < 1/2 AL 1/2 AL < RESULT < AL RESULT > AL

Reporting Limit (μg/g) 1/2 of AL

"-" not detected above reporting limit

"*" analyzed by GC/MS (all others analyzed by LC/MS/MS)

Permethrins neasured as the cumulative residue of the *cis*- and *trans*permethrin isomers.

Pyrethrin measures as the cumulative residue of pyrethrin I, cinerin I, and jasmolin I.

Abbreviations: LC - Liquid Chromatography, GC - Gas Chromatography, MS - Mass Spectrometry, RK - Reporting Limit, AL - Action Level, CAS - Chemical Abstract Services

<u>Pesticide</u>	Synonym(s)	<u>Pesticide</u>	Synonym(s)	<u>Pesticide</u>	Synonym(s)
Cyfluthrin	Baythroid	Myclobutanil	Systhane	Propiconazole	Tilt
DDVP	Dichlorvos	Naled	Dibrom	Propoxur	Baygon
Ethoprophos	Prophos	Phosmet	Imidan		

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REPORT OF LABORATORY ANALYSIS





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Hemp

Remarks:

Sample Matrix: Industrial Hemp

Date Completed: 06/19/2019

HEAVY METAL PROFILE

Analysis Date/Time: 06/15/2019 1839 **Method:** ICP/MS **Deviations from SOP:**

Analyst: OL Instrument: PerkinElmer Elan 9000 None

<u>Heavy Metal</u>	<u>Result</u> (μg/kg)	<u>Action Level</u> (μg/kg)
Arsenic (As)	-	200
Cadmium (Cd)	-	200
Lead (Pb)	-	100
Mercury (Hg)	-	500



Abbreviations: ICP - Inductively-Coupled Plasma, OES - Optical Emission Spectroscopy, RL - Reporting Limit, AL - Action Level

Color Key

RESULT < 1/2 AL

1/2 AL < RESULT < AL

RESULT > AL

Reporting Limit (µg/kg)

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Hemp

Remarks:

MICROBIOLOGICAL PROFILE

Analysis Date/Time: 06/15/2019 1839 Method: Hardy Diagnostics CompactDry Deviations from SOP:

Analyst: OL Instrument: None

Lab ID: SA2019-6556

Bacteria/Microbe	<u>Result</u> (CFU/g)	Action Level (CFU/g)
Aerobic Plate Count, Total	NT	100
Coliforms, Total	Absent	100
Escherichia Coli (E. Coli)	Absent	1
Mold	Absent	10000
Yeast	Absent	10000
Salmonella spp.	Absent	1



Abbreviations: EC - Escherichia Coli, CFU - Colony-Forming Unit, RL - Reporting Limit, AL - Action Level, NT - Not Tested

Color Key

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1/2 AL < RESULT < AL

RESULT > AL

Reporting Limit (CFU/g)

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