

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: CBDCustomer ID: 32Harvest/Extract Lot: NoneOrder ID: OR2019-910Customer Name: CBD Plus USAHarvest/Extract Batch: None

Cultivar (Strain): Banana Kush + CRD

5018

Sample Date: 04/02/2019

Lab ID: SA2019-3127

Date Received: 04/02/2019

Sample Matrix: Concentrate

Date Completed: 04/05/2019

Remarks:

CANNABINOID (POTENCY) PROFILE

Analysis Date/Time: 04/02/2019 2300 Method: HPLC/DAD (Internal Method-001) Moisture Content (%): Analyst: OL Instrument: Agilent 1100 Water Activity (aw): -

Cannabinoid	Result (%)	Result (mg/g)	Reporting Limit (mg/g)	Per Unit (mg)
CBD	37.7	377	0.23	377
CBDa	-	-	0.23	-
CBDv	0.624	6.24	0.23	6.24
Δ9-ΤΗС	-	-	0.23	-
$\Delta 8$ -THC	-	-	0.23	-
THCa	-	-	0.23	-
THCv	-	-	0.23	-
CBC	9.96	99.6	0.23	99.6
CBG	4.64	46.4	0.23	46.4
CBGa	-	-	0.23	-
CBN	7.13	71.3	0.23	71.3
TOTAL	60.1	601		601



 CBN
 7.13
 71.3
 0.23
 71.3

 TOTAL
 60.1
 601
 601

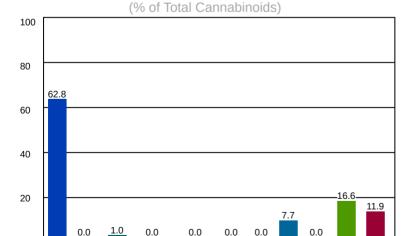
 TOTAL THC

 TOTAL CBD
 37.7
 377
 377

UNIT MASS (g): 1

"-" Not detected above RL.

Cannabinoid Distribution



Deviations from standard operating procedure: None

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

Values for plant matter are adjusted for moisture content.

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

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THCa

THCv

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Δ8-ΤΗС

Δ9-ΤΗС



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Harvest/Extract Lot: None Harvest/Extract Batch: None

Cultivar (Strain): Banana Kush + CRD

Customer Name: CBD Plus USA

Sample Matrix: Concentrate

5018

Analyst: OL

Date Received: 04/02/2019

Lab ID: SA2019-3127

Date Completed: 04/05/2019

Sample Date: 04/02/2019

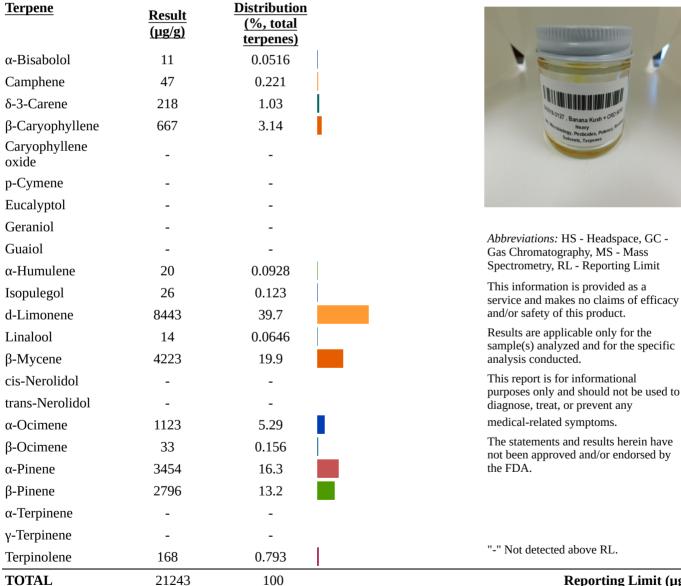
Analysis Date/Time: 04/02/2019 2300

Remarks:

TERPENOID PROFILE

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

Instrument: Agilent 6890 None





Reporting Limit (µg/g): 10.3



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Sample Matrix: Concentrate

Date Completed: 04/05/2019

Remarks:

Lab ID: SA2019-3127

RESIDUAL SOLVENT PROFILE

Analysis Date/Time: 04/02/2019 2300 Method: USP <467> **Deviations from SOP:** Analyst: OL **Instrument:** Agilent 6890 None

Solvent	<u>Result</u> (μg/g)	Action Level (μg/g)	Solvent	<u>Result</u> (μg/g)	Action Leve (μg/g)
Acetone (67-64-1)	-	5000	n-Heptane (142-82-5)	-	5000
Acetonitrile (75-5-8)	-	410	n-Hexane (110-54-3)	-	290
Benzene (71-43-2)	-	2	Isobutane (75-28-5)	-	5000
n-Butane (106-97-2)	-	5000	Isopropanol (67-63-0)	-	5000
1-Butanol (71-36-3)	-	5000	Isopropyl acetate (108-21-4)	-	5000
2-Butanol (78-92-2)	-	5000	Isopropyl benzene (98-82-8)	-	70
2-Butanone (78-93-3)	-	5000	Methanol (67-56-1)	-	3000
Cyclohexane (110-82-7)	-	3880	2-Methylbutane (78-78-4)	-	5000
1,2-Dimethoxyethane (110-71-4)	-	100	Methylene chloride (75-9-2)	-	600
N,N-Dimethylacetamide (127-19-5)	-	1090	2-Methylpentane (107-83-5)	-	290
2,2-Dimethylbutane (75-83-2)	-	290	3-Methylpentane (96-10-0)	-	290
2,3-Dimethylbutane (79-29-8)	-	290	n-Pentane (109-66-0)	-	5000
N,N-Dimethylformamide (68-12-2)	-	880	1-Pentanol (71-41-0)	-	5000
Dimethylsulfoxide (67-68-5)	-	5000	n-Propane (74-98-6)	-	5000
1,4-Dioxane (123-91-1)	-	380	1-Propanol (71-23-8)	-	5000
Ethanol (64-17-5)	-	5000	Pyridine (110-86-1)	-	200
2-Ethoxyethanol (110-80-5)	-	160	Tetrahydrofuran (109-99-9)	-	720
Ethyl ether (60-29-7)	-	5000	Tetramethylene sulfone (126-33-0)	-	160
Ethyl acetate (141-78-6)	-	5000	Toluene (108-88-3)	-	890
Ethyl benzene (100-41-4)	-	217	o-Xylene (95-47-6)	-	2170
Ethylene glycol (107-21-1)	-	620	m,p-Xylene (108-38-3 or 106-42-3)	-	2170
Ethylene oxide (75-21-8)	-	50	Xylenes* (1330-20-7)	-	2170



Color Key



Reporting Limit (µg/g) 1/2 of AL

"-" not detected above reporting limit

"*" - o,m,p-Xylene and Ethylbenzene

Solvent	Synonym(s)	Solvent	Synonym(s)	<u>Solvent</u>	Synonym(s)
Acetonitrile	Methyl Cyanide, ACN	2-Ethoxyethanol	Cellosolve, Ethyl glycol	Methanol	Methyl alcohol
1-Butanol	n-Butanol, Butyl	Ethyl ether	Diethyl ether, Ether	2-Methylbutane	Isopentane
1-Dutanoi	Alcohol	Ethyl acetate	EtOAc	Methylene chloride	Dichloromethane
2-Butanol	sec-Butyl alcohol	Ethyl benzene	Phenylethane	2-Methylpentane	Isohexane
2-Butanone	Methyl ethyl ketone, MEK	Ethylene glycol	1,2-Ethanediol	1-Pentanol	n-Amyl alcohol
1.2 Dimethovyvethone		Ethylene oxide	Oxirane	1-Propanol	Propyl alcohol
1,2-Dimethoxyethane	Monoglyme	Isobutane	2-Methylpropane	Tetrahydrofuran	THF
2,3-Dimethylbutane	Neohexane	Icopropanol	2-Propanol, IPA	Tetramethylene sulfone	Sulfolane
2,3-Dimethylbutane	Diisopropyl	Isopropanol	1 ,	,	
N.N-Dimethylformamide	DMF	Isopropyl Acetate	Acetic acid isopropyl ester	Xylene	Dimethylbenzene

Abbreviations: HS-Headspace, GC-Gas Chromatography, MS-Mass Spectrometry, RL-Reporting Limit, AL-Action Level **CAS-Chemical Abstract Services**

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Dimethysufoxide

DMSO



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5018

Remarks:

Sample Matrix: Concentrate **Date Completed:** 04/05/2019

.3•

Lab ID: SA2019-3127

PESTICIDES PROFILE

Analysis Date/Time: 04/02/2019 2300 Method: LC/MS/MS and GC/MS Deviations from SOP:
Analyst: OL Instrument: Waters Acquity/TQD None

<u>Pesticide</u>	Result (μg/g)	Action Level (μg/g)	<u>Pesticide</u>	Result (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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5018

Remarks:

Sample Matrix: Concentrate

Date Completed: 04/05/2019

HEAVY METAL PROFILE

Analysis Date/Time: 04/02/2019 2300 **Method:** ICP/MS **Deviations from SOP:**

Analyst: OL Instrument: PerkinElmer Elan 9000 None

Lab ID: SA2019-3127

Heavy Metal	Result	Action Level
	<u>(μg/kg)</u>	<u>(μg/kg)</u>
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)
50

"-" not detected above reporting limit

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Sample Matrix: Concentrate

Date Completed: 04/05/2019

MICROBIOLOGICAL PROFILE

Analysis Date/Time: 04/02/2019 2300 Method: Hardy Diagnostics CompactDry Deviations from SOP:

Analyst: OL Instrument: None

Remarks:

Lab ID: SA2019-3127

Bacteria/Microbe	Result (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

RESULT < 1/2 AL

1/2 AL < RESULT < AL

RESULT > AL

Reporting Limit (CFU/g)

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