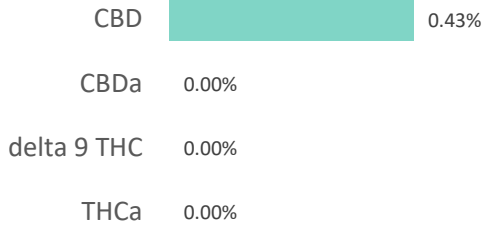


GUMBSISO20

Batch ID:	0930192	Test ID:	4614744.0026
Reported:	27-Nov-2019	Method:	TM14
Type:	Unit		
Test:	Potency		

CANNABINOID PROFILE


Compound	LOQ (mg)	Result (mg)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.57	0.00	0.0
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.28	0.00	0.0
Cannabidiolic acid (CBDA)	0.56	0.00	0.0
Cannabidiol (CBD)	0.31	15.00	4.3
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.31	0.00	0.0
Cannabinolic Acid (CBNA)	0.78	0.00	0.0
Cannabinol (CBN)	0.34	0.00	0.0
Cannabigerolic acid (CBGA)	0.50	0.00	0.0
Cannabigerol (CBG)	0.28	0.00	0.0
Tetrahydrocannabivarinic Acid (THCVA)	0.49	0.00	0.0
Tetrahydrocannabivarin (THCV)	0.25	0.00	0.0
Cannabidivarinic Acid (CBDVA)	0.52	0.00	0.0
Cannabidivarin (CBDV)	0.28	0.00	0.0
Cannabichromenic Acid (CBCA)	0.42	0.00	0.0
Cannabichromene (CBC)	0.51	0.00	0.0
Total Cannabinoids		15.00	4.30
Total Potential THC**		0.00	0.00
Total Potential CBD**		15.00	4.30

NOTES:


of Servings = 1, Sample Weight=3.48849g

N/A

% = % (w/w) = Percent (Weight of Analyte / Weight of Product)


* Total Cannabinoids result reflects the absolute sum of all cannabinoids detected.

** Total Potential THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation step.

$$\text{Total THC} = \text{THC} + (\text{THCa} * (0.877)) \text{ and Total CBD} = \text{CBD} + (\text{CBDa} * (0.877))$$
FINAL APPROVAL


Tyler Wiese
27-Nov-2019
1:45 PM

PREPARED BY / DATE



Greg Zimpfer
27-Nov-2019
1:56 PM

APPROVED BY / DATE

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC. ISO/IEC 17025:2005 Accredited A2LA Certificate Number 4329.02



GUMBSIS020

FARM BILL
COMPLIANT



SAMPLE ID
149570

SAMPLE NAME
GUMBSIS020

MATRIX
Edible

BATCH ID
0930192

COLLECTED
11/15/2019 10:57

RECEIVED
11/15/2019 10:57

SERVING SIZE
1

SERVINGS PER PACKAGE
15

CULTIVATOR INFO
Joy Organics

**TOTAL
CBD**

14.08
MG PER SERVING

**TOTAL
THC**

ND
MG PER SERVING

**TOTAL
CANNABINOIDS**

14.08
MG PER SERVING

Chemical Residue

No Analytes Detected



Chemical Residue GC

No Analytes Detected



Microbial Plating

Yeast: 130.0 CFU/g

Heavy Metals

Lead: 0.0517 ug/g, Mercury: <LLOQ



 Indicates that the hemp product passes some of the strictest testing standards available for cannabis and hemp.



CANNABINOID ANALYSIS

Total THC,CBD value(s) have been decarboxylated.

TOTAL THC: ND per serving (ND) (ND)
 TOTAL CBD: 14.08 mg per serving (3.669 mg/g) (0.3669 %)
 TOTAL CANNABINOIDS: 14.08 mg per serving (3.669 mg/g) (0.3669 %)

UNIT OF MEASUREMENT: Milligrams per Gram(mg/g)

ANALYTE	RESULT	LOD	LLOQ	ANALYTE	RESULT	LOD	LLOQ
THCa	ND	0.0100	0.0250	CBDv	<1 mg/g (<1 mg/g)	0.0100	0.0250
D9THC	ND	0.0100	0.0250	CBGa	ND	0.0100	0.0250
D8THC	ND	0.0100	0.0250	CBG	ND	0.0100	0.0250
THCv	ND	0.0100	0.0250	CBN	ND	0.0100	0.0250
CBDa	ND	0.0100	0.0250	CBC	ND	0.0100	0.0250
CBD	3.669 mg/g (0.3669 %)	0.0100	0.0250				

ADDITIONAL INFORMATION

Method: SOP-TECH-001 Sample Prepped 11/18/2019 11:34 Sample Approved 11/18/2019 20:23
 Instrument: UPLC-DAD Sample Analyzed 11/18/2019 11:34

CHEMICAL RESIDUE ANALYSIS

UNIT OF MEASUREMENT: Micrograms per Gram(ug/g)

ANALYTE	RESULT	LOD	LLOQ	ACTION LEVEL	ANALYTE	RESULT	LOD	LLOQ	ACTION LEVEL
Abamectin	ND	0.0200	0.0400	0.3000	Acephate	ND	0.0200	0.0400	5.000
Acequinocyl	ND	0.0200	0.0400	4.000	Acetamiprid	ND	0.0200	0.0400	5.000
Aldicarb	ND	0.0200	0.0400	0.0	Azoxystrobin	ND	0.0200	0.0400	40.00
Bifenazate	ND	0.0200	0.0400	5.000	Bifenthrin	ND	0.0200	0.0400	0.5000
Boscalid	ND	0.0200	0.0400	10.00	Carbaryl	ND	0.0200	0.0400	0.5000
Carbofuran	ND	0.0200	0.0400	0.0	Chlorantraniliprole	ND	0.0200	0.0400	40.00
Chlorfenapyr	ND	0.0200	0.0400	0.0	Chlorpyrifos	ND	0.0200	0.0400	0.0
Clofentezine	ND	0.0200	0.0400	0.5000	Coumaphos	ND	0.0200	0.0400	0.0
Cyfluthrin	ND	0.1000	0.2000	1.000	Cypermethrin	ND	0.0400	0.1000	1.000
Daminozide	ND	0.0200	0.0400	0.0	Diazinon	ND	0.0200	0.0400	0.2000
Dichlorvos	ND	0.0200	0.0400	0.0	Dimethoate	ND	0.0200	0.0400	0.0
Dimethomorph	ND	0.0196	0.0392	2.000	Ethoprophos	ND	0.0200	0.0400	0.0
Etofenprox	ND	0.0200	0.0400	0.0	Etoazole	ND	0.0200	0.0400	1.500
Fenhexamid	ND	0.0200	0.0400	10.00	Fenoxycarb	ND	0.0200	0.0400	0.0
Fenpyroximate	ND	0.0200	0.0400	2.000	Fipronil	ND	0.0200	0.0400	0.0
Flonicamid	ND	0.0200	0.0400	2.000	Fludioxonil	ND	0.0200	0.0400	30.00
Hexythiazox	ND	0.0200	0.0400	2.000	Imazalil	ND	0.0200	0.0400	0.0
Imidacloprid	ND	0.0200	0.0400	3.000	KresoximMethyl	ND	0.0200	0.0400	1.000
Malathion	ND	0.0200	0.0400	5.000	Metalaxyl	ND	0.0200	0.0400	15.00
Methiocarb	ND	0.0200	0.0400	0.0	Methomyl	ND	0.0200	0.0400	0.1000
Mevinphos	ND	0.0200	0.0400	0.0	Myclobutanil	ND	0.0200	0.0400	9.000
Naled	ND	0.0200	0.0400	0.5000	Oxamyl	ND	0.0200	0.0400	0.2000
Paclbutrazol	ND	0.0200	0.0400	0.0	Permethrins	ND	0.0198	0.0396	20.00

Phosmet	ND	0.0200	0.0400	0.2000	PiperonylButoxide	ND	0.0200	0.0400	8.000
Prallethrin	ND	0.0200	0.0400	0.4000	Propiconazole	ND	0.0200	0.0400	20.00
Propoxur	ND	0.0200	0.0400	0.0	Pyrethrins	ND	0.0078	0.0158	1.000
Pyridaben	ND	0.0200	0.0400	3.000	Spinetoram	ND	0.0200	0.0400	3.000
Spinosad	ND	0.0198	0.0395	3.000	Spiromesifen	ND	0.0200	0.0400	12.00
Spirotetramat	ND	0.0200	0.0400	13.00	Spiroxamine	ND	0.0200	0.0400	0.0
Tebuconazole	ND	0.0200	0.0400	2.000	Thiacloprid	ND	0.0200	0.0400	0.0
Thiamethoxam	ND	0.0200	0.0400	4.500	Trifloxystrobin	ND	0.0200	0.0400	30.00

ADDITIONAL INFORMATION

Method: SOP-TECH-002
Instrument: LC-MS/MS

Sample Prepped 11/18/2019 09:06
Sample Analyzed 11/18/2019 10:00

Sample Approved 11/19/2019 15:56



CHEMICAL RESIDUE GC ANALYSIS

UNIT OF MEASUREMENT: Micrograms per Gram(ug/g)

ANALYTE	RESULT	LOD	LLOQ	ACTION LEVEL	ANALYTE	RESULT	LOD	LLOQ	ACTION LEVEL
Captan	ND	0.1000	0.2000	5.000	Chlordane	ND	0.0400	0.1000	0.0
MethylParathion	ND	0.0400	0.1000	0.0	PCNB	ND	0.0200	0.0400	0.2000

ADDITIONAL INFORMATION

Method: SOP-TECH-010
Instrument: GC-MS/MS

Sample Prepped 11/18/2019 07:12
Sample Analyzed 11/18/2019 09:59

Sample Approved 11/19/2019 16:24



MICROBIAL PLATE ANALYSIS

UNIT OF MEASUREMENT: Colony Forming Unit(CFU)

ANALYTE	RESULT	LOD	LLOQ	ANALYTE	RESULT	LOD	LLOQ
Coliform	ND	0.0	10.00	E.coli	ND	0.0	10.00
Mold	ND	0.0	10.00	Yeast	130.0 CFU/g	0.0	10.00
APC	ND	0.0	10.00				

ADDITIONAL INFORMATION

Method: SOP-TECH-005, SOP-TECH-006
Instrument: PetriFilm/Incubator

Sample Prepped 11/18/2019 06:12
Sample Analyzed 11/19/2019 13:10

Sample Approved 11/19/2019 14:53





HEAVY METALS ANALYSIS

UNIT OF MEASUREMENT: Micrograms per Gram(ug/g)

ANALYTE	RESULT	LOD	LLOQ	ACTION LEVEL	ANALYTE	RESULT	LOD	LLOQ	ACTION LEVEL
Arsenic	ND	0.0200	0.0500	1.500	Cadmium	ND	0.0050	0.0500	0.5000
Lead	0.0517 ug/g	0.0100	0.0500	0.5000	Mercury	<LLOQ	0.0030	0.0500	3.000

ADDITIONAL INFORMATION

Method: SOP-TECH-013
Instrument: ICP-MS

Sample Prepped 11/18/2019 14:20
Sample Analyzed 11/19/2019 10:19

Sample Approved 11/19/2019 19:22

This report applies to the sample investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. This report provides technical results for a specific sample and the report shall not be altered, modified, supplemented, or abstracted in any manner. Any violation of these conditions renders the report and its results void.

All LQC samples required by state regulations were performed and met the acceptance criteria.

DATA REVIEWED AND APPROVED BY



11/19/2019

Swetha Kaul, PhD
Chief Scientific Officer

Date

