

CBG Flower

FARM BILL
COMPLIANTSAMPLE ID
145016SAMPLE NAME
CBG FlowerMATRIX
FlowerCOLLECTED
1/24/20 14:54RECEIVED
1/24/20 14:55DISTRIBUTOR INFO
Top Shelf Hemp CoCULTIVATOR INFO
Kind RemediesTOTAL
CBD

2.324 %

TOTAL
THC

ND

TOTAL
CANNABINOIDS

15.69 %

TOTAL
TERPENES

0.59 %

Chemical Residue

No Analytes Detected



Chemical Residue GC

No Analytes Detected



Microbial Plating

APC: >ULOQ, Yeast: 6264 CFU/g, Coliform: 352.0 CFU/g

Moisture Content

Moisture Content: 9.030 %

Heavy Metals

Lead: 0.0848 ug/g, Cadmium: 0.0563 ug/g, Arsenic: <LLOQ, and 1 more analytes detected



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



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CANNABINOID ANALYSIS

- ❗ Total THC,CBD value(s) are corrected for moisture, and the acids have undergone a calculation to mimic decarboxylation
- ❗ Total Cannabinoid value(s) are corrected for moisture content
- ❗ Individual Analyte value(s) are corrected for moisture content

TOTAL THC: ND (ND)
 TOTAL CBD: 23.24 mg/g (2.324 %)
 TOTAL CANNABINOIDS: 156.9 mg/g (15.69 %)

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

ANALYTE	RESULT	LOD	LLOQ	ANALYTE	RESULT	LOD	LLOQ
THCa	ND	0.2500	0.5000	CBDv	ND	0.2500	0.5000
D9THC	ND	0.2500	0.5000	CBGa	127.5 mg/g (12.75 %)	0.2500	0.5000
D8THC	ND	0.2500	0.5000	CBG	2.898 mg/g (0.2898 %)	0.2500	0.5000
THCv	ND	0.2500	0.5000	CBN	ND	0.2500	0.5000
CBDa	26.50 mg/g (2.650 %)	0.2500	0.5000	CBC	ND	0.2500	0.5000
CBD	ND	0.2500	0.5000				

ADDITIONAL INFORMATION

Method: SOP-TECH-001
 Instrument: UPLC-DAD

Sample Prepped 11/14/2019 12:24
 Sample Analyzed 11/14/2019 15:05

Sample Approved 11/15/2019 18:00

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	0.1000	Acephate	ND	0.0200	0.0400	0.1000
Acequinocyl	ND	0.0200	0.0400	0.1000	Acetamiprid	ND	0.0200	0.0400	0.1000
Aldicarb	ND	0.0200	0.0400	0.0	Azoxystrobin	ND	0.0200	0.0400	0.2000
Bifenazate	ND	0.0200	0.0400	0.1000	Bifenthrin	ND	0.0200	0.0400	3.000
Boscalid	ND	0.0200	0.0400	0.1000	Carbaryl	ND	0.0200	0.0400	0.5000
Carbofuran	ND	0.0200	0.0400	0.0	Chlorantraniliprole	ND	0.0200	0.0400	10.00
Chlorfenapyr	ND	0.0200	0.0400	0.0	Chlorpyrifos	ND	0.0200	0.0400	0.0
Clofentezine	ND	0.0200	0.0400	0.1000	Coumaphos	ND	0.0200	0.0400	0.0
Cyfluthrin	ND	0.1000	0.2000	2.000	Cypermethrin	ND	0.0400	0.1000	1.000
Daminozide	ND	0.0200	0.0400	0.0	Diazinon	ND	0.0200	0.0400	0.1000
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	Etoxazole	ND	0.0200	0.0400	0.1000
Fenhexamid	ND	0.0200	0.0400	0.1000	Fenoxycarb	ND	0.0200	0.0400	0.0
Fenpyroximate	ND	0.0200	0.0400	0.1000	Fipronil	ND	0.0200	0.0400	0.0
Flonicamid	ND	0.0200	0.0400	0.1000	Fludioxonil	ND	0.0200	0.0400	0.1000
Hexythiazox	ND	0.0200	0.0400	0.1000	Imazalil	ND	0.0200	0.0400	0.0
Imidacloprid	ND	0.0200	0.0400	5.000	KresoximMethyl	ND	0.0200	0.0400	0.1000
Malathion	ND	0.0200	0.0400	0.5000	Metalaxyl	ND	0.0200	0.0400	2.000
Methiocarb	ND	0.0200	0.0400	0.0	Methomyl	ND	0.0200	0.0400	1.000
Mevinphos	ND	0.0200	0.0400	0.0	Myclobutanil	ND	0.0200	0.0400	0.1000



Naled	ND	0.0200	0.0400	0.1000
Paclobutrazol	ND	0.0200	0.0400	0.0
Phosmet	ND	0.0200	0.0400	0.1000
Prallethrin	ND	0.0200	0.0400	0.1000
Propoxur	ND	0.0200	0.0400	0.0
Pyridaben	ND	0.0200	0.0400	0.1000
Spinosad	ND	0.0198	0.0395	0.1000
Spirotetramat	ND	0.0200	0.0400	0.1000
Tebuconazole	ND	0.0200	0.0400	0.1000
Thiamethoxam	ND	0.0200	0.0400	5.000

Oxamyl	ND	0.0200	0.0400	0.5000
Permethrins	ND	0.0198	0.0396	0.5000
PiperonylButoxide	ND	0.0200	0.0400	3.000
Propiconazole	ND	0.0200	0.0400	0.1000
Pyrethrins	ND	0.0078	0.0158	0.5000
Spinetoram	ND	0.0200	0.0400	0.1000
Spiromesifen	ND	0.0200	0.0400	0.1000
Spiroxamine	ND	0.0200	0.0400	0.0
Thiacloprid	ND	0.0200	0.0400	0.0
Trifloxystrobin	ND	0.0200	0.0400	0.1000

ADDITIONAL INFORMATION

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

Sample Prepped 11/14/2019 12:24
Sample Analyzed 11/14/2019 15:05

Sample Approved 11/15/2019 13:58

CHEMICAL RESIDUE GC ANALYSIS

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

ANALYTE	RESULT	LOD	LLOQ	ACTION LEVEL
Captan	ND	0.1000	0.2000	0.7000
MethylParathion	ND	0.0400	0.1000	0.0

ANALYTE	RESULT	LOD	LLOQ	ACTION LEVEL
Chlordane	ND	0.0400	0.1000	0.0
PCNB	ND	0.0200	0.0400	0.1000

ADDITIONAL INFORMATION

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

Sample Prepped 11/14/2019 12:26
Sample Analyzed 11/14/2019 15:05

Sample Approved 11/15/2019 21:36

TERPENE ANALYSIS

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

ANALYTE	RESULT	LOD	LLOQ
Limonene	0.3512 mg/g (0.0351 %)	0.0200	0.0400
Gamma-Terpinene	ND	0.0200	0.0400
Linalool	0.1402 mg/g (0.0140 %)	0.0200	0.0400
Alpha-Bisabolol	0.5748 mg/g (0.0575 %)	0.0200	0.0400
Alpha-Pinene	0.2337 mg/g (0.0234 %)	0.0200	0.0400
Eucalyptol	ND	0.0200	0.0400
Terpinolene	0.1013 mg/g (0.0101 %)	0.0200	0.0400
B-Myrcene	1.411 mg/g (0.1411 %)	0.0200	0.0400
Alpha-Terpinene	ND	0.0200	0.0400
Guaiol	ND	0.0200	0.0400
Caryophyllene Oxide	0.0788 mg/g (0.0079 %)	0.0200	0.0400

ANALYTE	RESULT	LOD	LLOQ
Delta-3-Carene	ND	0.0200	0.0400
Nerolidol	0.5226 mg/g (0.0523 %)	0.0200	0.0400
Geraniol	ND	0.0200	0.0400
Isopulegol	ND	0.0200	0.0400
Beta-Pinene	0.1598 mg/g (0.0160 %)	0.0200	0.0400
Ocimene	ND	0.0200	0.0400
P-Cymene	0.3484 mg/g (0.0348 %)	0.0200	0.0400
Beta-Caryophyllene	1.520 mg/g (0.1520 %)	0.0200	0.0400
Alpha-Humulene	0.5524 mg/g (0.0552 %)	0.0200	0.0400
Camphene	ND	0.0200	0.0400

ADDITIONAL INFORMATION

Method: SOP-TECH-004
Instrument: HS-GC-FID

Sample Prepped 11/13/2019 16:22
Sample Analyzed 11/13/2019 17:36

Sample Approved 11/14/2019 18:17



MICROBIAL PLATE ANALYSIS

UNIT OF MEASUREMENT: Colony Forming Unit(CFU)

ANALYTE	RESULT	LOD	LLOQ	ANALYTE	RESULT	LOD	LLOQ
Coliform	352.0 CFU/g	0.0	10.00	E.coli	ND	0.0	10.00
Mold	ND	0.0	10.00	Yeast	6264 CFU/g	0.0	10.00
APC	>ULOQ	0.0	10.00				

ADDITIONAL INFORMATION

Method: SOP-TECH-005, SOP-TECH-006 Sample Prepped 11/14/2019 15:16 Sample Approved 11/18/2019 17:17
Instrument: PetriFilm/Incubator Sample Analyzed 11/18/2019 12:49

MOISTURE CONTENT ANALYSIS

UNIT OF MEASUREMENT: Percent Moisture Content(%)

ANALYTE	RESULT	LOD	LLOQ	ANALYTE	RESULT	LOD	LLOQ
Moisture Content	9.030 %	0.0	0.0				

ADDITIONAL INFORMATION

Method: SOP-TECH-017 Sample Prepped 11/14/2019 18:21 Sample Approved 11/15/2019 15:43
Instrument: Moisture Analyzer Sample Analyzed 11/14/2019 18:23

HEAVY METALS ANALYSIS

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

ANALYTE	RESULT	LOD	LLOQ	ACTION LEVEL	ANALYTE	RESULT	LOD	LLOQ	ACTION LEVEL
Arsenic	<LLOQ	0.0200	0.0500	0.2000	Cadmium	0.0563 ug/g	0.0050	0.0500	0.2000
Lead	0.0848 ug/g	0.0100	0.0500	0.5000	Mercury	<LLOQ	0.0030	0.0500	0.1000

ADDITIONAL INFORMATION

Method: SOP-TECH-013 Sample Prepped 11/14/2019 09:28 Sample Approved 11/14/2019 15:26
Instrument: ICP-MS Sample Analyzed 11/14/2019 09:36



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 BY11/20/2019

Swetha Kaul, PhD
Chief Scientific Officer

Date

