

# Kush Hemp

FARM BILL  
COMPLIANT



SAMPLE ID  
**145020**

SAMPLE NAME  
**Kush Hemp**

MATRIX  
**Flower**

COLLECTED  
**11/12/2019 15:24**

RECEIVED  
**11/12/2019 15:24**

DISTRIBUTOR INFO  
**Blue Ridge Sovereign**

CULTIVATOR INFO  
**blueridgehempco.com**

**TOTAL  
CBD** **13.44 %**

**TOTAL  
THC** **0.0620 %**

**TOTAL  
CANNABINOIDS** **15.60 %**

**TOTAL  
TERPENES** **1.01 %**

## Chemical Residue

No Analytes Detected



## Chemical Residue GC

No Analytes Detected



## Microbial Plating

APC: >ULOQ, Yeast: 2231 CFU/g

## Moisture Content

Moisture Content: 11.34 %

## Heavy Metals

Lead: 0.1786 ug/g, Arsenic: <LLOQ, Cadmium: <LLOQ, and 1 more analytes detected



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



**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: 0.6195 mg/g (0.0620 %)  
 TOTAL CBD: 134.4 mg/g (13.44 %)  
 TOTAL CANNABINOIDS: 156.0 mg/g (15.60 %)

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

ANALYTE	RESULT	LOD	LLOQ	ANALYTE	RESULT	LOD	LLOQ
THCa	0.7064 mg/g (0.0706 %)	0.2500	0.5000	CBDv	ND	0.2500	0.5000
D9THC	ND	0.2500	0.5000	CBGa	2.045 mg/g (0.2045 %)	0.2500	0.5000
D8THC	ND	0.2500	0.5000	CBG	ND	0.2500	0.5000
THCv	ND	0.2500	0.5000	CBN	ND	0.2500	0.5000
CBDa	153.2 mg/g (15.32 %)	0.2500	0.5000	CBC	ND	0.2500	0.5000
CBD	ND	0.2500	0.5000				

**ADDITIONAL INFORMATION**

Method: SOP-TECH-001 Sample Prepped 11/14/2019 12:24 Sample Approved 11/15/2019 18:00  
 Instrument: UPLC-DAD Sample Analyzed 11/14/2019 15:05

**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
Fonicamid	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	Oxamyl	ND	0.0200	0.0400	0.5000
Paclobutrazol	ND	0.0200	0.0400	0.0	Permethrins	ND	0.0198	0.0396	0.5000
Phosmet	ND	0.0200	0.0400	0.1000	PiperonylButoxide	ND	0.0200	0.0400	3.000
Prallethrin	ND	0.0200	0.0400	0.1000	Propiconazole	ND	0.0200	0.0400	0.1000
Propoxur	ND	0.0200	0.0400	0.0	Pyrethrins	ND	0.0078	0.0158	0.5000
Pyridaben	ND	0.0200	0.0400	0.1000	Spinetoram	ND	0.0200	0.0400	0.1000
Spinosad	ND	0.0198	0.0395	0.1000	Spiromesifen	ND	0.0200	0.0400	0.1000
Spirotetramat	ND	0.0200	0.0400	0.1000	Spiroxamine	ND	0.0200	0.0400	0.0
Tebuconazole	ND	0.0200	0.0400	0.1000	Thiacloprid	ND	0.0200	0.0400	0.0
Thiamethoxam	ND	0.0200	0.0400	5.000	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	ANALYTE	RESULT	LOD	LLOQ	ACTION LEVEL
Captan	ND	0.1000	0.2000	0.7000	Chlordane	ND	0.0400	0.1000	0.0
MethylParathion	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 21:38



## TERPENE ANALYSIS

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

ANALYTE	RESULT	LOD	LLOQ	ANALYTE	RESULT	LOD	LLOQ
Limonene	1.183 mg/g (0.1183 %)	0.0200	0.0400	Delta-3-Carene	ND	0.0200	0.0400
Gamma-Terpinene	0.0775 mg/g (0.0078 %)	0.0200	0.0400	Nerolidol	0.4267 mg/g (0.0427 %)	0.0200	0.0400
Linalool	0.3405 mg/g (0.0341 %)	0.0200	0.0400	Geraniol	0.2553 mg/g (0.0255 %)	0.0200	0.0400
Alpha-Bisabolol	1.174 mg/g (0.1174 %)	0.0200	0.0400	Isopulegol	0.1210 mg/g (0.0121 %)	0.0200	0.0400
Alpha-Pinene	0.1851 mg/g (0.0185 %)	0.0200	0.0400	Beta-Pinene	0.2490 mg/g (0.0249 %)	0.0200	0.0400
Eucalyptol	0.1801 mg/g (0.0180 %)	0.0200	0.0400	Ocimene	ND	0.0200	0.0400
Terpinolene	0.0845 mg/g (0.0084 %)	0.0200	0.0400	P-Cymene	0.1317 mg/g (0.0132 %)	0.0200	0.0400
B-Myrcene	0.7263 mg/g (0.0726 %)	0.0200	0.0400	Beta-Caryophyllene	3.232 mg/g (0.3232 %)	0.0200	0.0400
Alpha-Terpinene	0.0502 mg/g (0.0050 %)	0.0200	0.0400	Alpha-Humulene	1.252 mg/g (0.1252 %)	0.0200	0.0400
Guaiol	0.0803 mg/g (0.0080 %)	0.0200	0.0400	Camphene	0.0836 mg/g (0.0084 %)	0.0200	0.0400
Caryophyllene Oxide	0.2940 mg/g (0.0294 %)	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	ND	0.0	10.00	E.coli	ND	0.0	10.00
Mold	ND	0.0	10.00	Yeast	2231 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	11.34 %	0.0	0.0				

### ADDITIONAL INFORMATION

Method: SOP-TECH-017      Sample Prepped 11/14/2019 15:11      Sample Approved 11/14/2019 15:34  
 Instrument: Moisture Analyzer      Sample Analyzed 11/14/2019 15:11

## 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	<LLOQ	0.0050	0.0500	0.2000
Lead	0.1786 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 BY**11/20/2019

Swetha Kaul, PhD  
Chief Scientific Officer

Date

