

Science First. ORELAP ID: 4096 OLCC#: 010-1002112892C

7200 Johnson Creek Blvd., Portland, OR 97206 (503) 307-0096

#### **CBG Blue Genius**

Lab ID: 2009199-01 Whole Circle Farms

Harvest / Process Lot: WCF-2020-BluG-001

**METRC Batch ID:** 

**Date Sampled:** 09/28/20

Date Printed: 10/1/20 Report cannot be used for OLCC/OHA compliance.

#### **Potency Analysis**

Analytical Method: De Backer, Journal of Chromatography b.2009. 11.004 - SOP 102

Cannabinoids (% we	eight)	Moisture Adjusted	LOQ
THCA	0.140	0.154	0.0790
delta 9-THC	< LOQ	< LOQ	0.0790
delta 8-THC	< LOQ	< LOQ	0.0790
CBGA	10.8	11.9	0.0790
CBDA	< LOQ	< LOQ	0.0790
CBD	< LOQ	< LOQ	0.0790
CBN	< LOQ	< LOQ	0.0790
CBG	0.155	0.170	0.0790
CBC	0.259	0.284	0.0790
Total CBG	9.62	10.6	0.0790
Total Cannabinoids	10.0	11.0	0.0790

Total THC 0.135 %

Total CBD < LOQ %

<LOQ - Results below the Limit of Quantitation

Acid form of THC/CBD are decarboxylated by heat, lose 12% of original mass as CO2. Result = \*bioactive\* "Total" Cannabinoid accounts for decarboxylation and moisture content. Total THC = [(THCA $\times$ 0.877) +  $\Delta$ 9THC] / (100%-MC)

#### **Moisture**

Analysis Method/SOP: SOP 7

Moisture: 9.07 %

EDIR LESTICE



Science First. ORELAP ID: 4096 OLCC#: 010-1002112892C

7200 Johnson Creek Blvd., Portland, OR 97206 (503) 307-0096

### **CBG Blue Genius**

Whole Circle Farms

Laboratory ID: 2009199-01

#### **Terpene Test Report**

Analysis Method/SOP: Terp	ı	
Analyte	Result µg/g	Result %
alpha-Bisabolol	768.8	0.07688
Camphene	< LOQ	< LOQ
Camphor	< LOQ	< LOQ
delta-3-Carene	< LOQ	< LOQ
beta-Caryophyllene	815	0.08150
Caryophyllene Oxide	132.6	0.01326
alpha-Cedrene	< LOQ	< LOQ
Cedrol	< LOQ	< LOQ
p-Cymene	< LOQ	< LOQ
(1R)-endo-(+)-Fenchyl	alcol39.97	0.003997
Eucalyptol	< LOQ	< LOQ
Geraniol	< LOQ	< LOQ
Geranyl acetate	< LOQ	< LOQ
Guaiol	1472	0.1472
alpha-Humulene	543.9	0.05439
Isoborneol	< LOQ	< LOQ
Isopulegol	< LOQ	< LOQ
Limonene	355.1	0.03551
Linalool	< LOQ	< LOQ
beta-Myrcene	1099	0.1099
Nerolidol	395.6	0.03956
Ocimene	< LOQ	< LOQ
alpha-Pinene	539.8	0.05398
beta-Pinene	255.1	0.02551
Pulegone	< LOQ	< LOQ
Sabinene	< LOQ	< LOQ
Sabinene hydrate	< LOQ	< LOQ
gamma-Terpinene	< LOQ	< LOQ
alpha-Terpinene	< LOQ	< LOQ
Terpinolene	< LOQ	< LOQ
Valencene	274.6	0.02746
Nerol	< LOQ	< LOQ
(+/-)-Borneol	33.88	0.003388





Science First. ORELAP ID: 4096 OLCC#: 010-1002112892C

7200 Johnson Creek Blvd., Portland, OR 97206 (503) 307-0096

### **CBG Blue Genius**

Whole Circle Farms

Laboratory ID: 2009199-01

Analysis	Method/SOP	: Terp
----------	------------	--------

Analyte	Result µg/g	Result %
(+/-)-Fenchone	< LOQ	< LOQ
alpha-Phellandrene	< LOQ	< LOQ
cis-Farnesene	< LOQ	< LOQ
Menthol	< LOQ	< LOQ
trans-Farnesene	1482	0.1482
alpha-Terpineol	45.8	0.004580
gamma-Terpineol	< LOQ	< LOQ
Total Terpenes	8253	0.8253

EDIR LESTICE



Science First. ORELAP ID: 4096 OLCC#: 010-1002112892C

7200 Johnson Creek Blvd., Portland, OR 97206 (503) 307-0096

### **CBG Blue Genius**

Whole Circle Farms

Laboratory ID: 2009199-01

### Quality Control Potency

Batch: B20I109 - Potency

Blank(B20I109-I	BLK1)						
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
THCA	< LOQ	0.0734	%		09/29/20 17:53	09/29/20 21:44	
delta 9-THC	< LOQ	0.0734	%		09/29/20 17:53	09/29/20 21:44	
CBGA	< LOQ	0.0734	%		09/29/20 17:53	09/29/20 21:44	
CBDA	< LOQ	0.0734	%		09/29/20 17:53	09/29/20 21:44	
CBD	< LOQ	0.0734	%		09/29/20 17:53	09/29/20 21:44	
CBN	< LOQ	0.0734	%		09/29/20 17:53	09/29/20 21:44	
CBG	< LOQ	0.0734	%		09/29/20 17:53	09/29/20 21:44	
delta 8-THC	< LOQ	0.0734	%		09/29/20 17:53	09/29/20 21:44	
CBC	< LOQ	0.0734	%		09/29/20 17:53	09/29/20 21:44	

% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
97.3	0.0713	%	85-115	09/29/20 17:53	09/29/20 21:53	
102	0.0713	%	85-115	09/29/20 17:53	09/29/20 21:53	
98.4	0.0713	%	85-115	09/29/20 17:53	09/29/20 21:53	
99.7	0.0713	%	85-115	09/29/20 17:53	09/29/20 21:53	
	97.3 102 98.4	97.3 0.0713 102 0.0713 98.4 0.0713	97.3 0.0713 % 102 0.0713 % 98.4 0.0713 %	97.3   0.0713   %   85-115     102   0.0713   %   85-115     98.4   0.0713   %   85-115	97.3 0.0713 % 85-115 09/29/20 17:53   102 0.0713 % 85-115 09/29/20 17:53   98.4 0.0713 % 85-115 09/29/20 17:53	97.3 0.0713 % 85-115 09/29/20 17:53 09/29/20 21:53   102 0.0713 % 85-115 09/29/20 17:53 09/29/20 21:53   98.4 0.0713 % 85-115 09/29/20 17:53 09/29/20 21:53

EDIR LESTICE



Science First. ORELAP ID: 4096 OLCC#: 010-1002112892C

7200 Johnson Creek Blvd., Portland, OR 97206 (503) 307-0096

### **CBG Blue Genius**

Whole Circle Farms

Laboratory ID: 2009199-01

# **Quality Control Terpene Analysis**

Batch: B20I104 - Terp

Blank(B20I104-BLK1	)						
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
alpha-Bisabolol	< LOQ	5.000E-4	%		09/28/20 18:42	09/30/20 00:15	
Camphene	< LOQ	5.000E-4	%		09/28/20 18:42	09/30/20 00:15	
Camphor	< LOQ	5.000E-4	%		09/28/20 18:42	09/30/20 00:15	
delta-3-Carene	< LOQ	5.000E-4	%		09/28/20 18:42	09/30/20 00:15	
beta-Caryophyllene	< LOQ	5.000E-4	%		09/28/20 18:42	09/30/20 00:15	
Caryophyllene Oxide	< LOQ	5.000E-4	%		09/28/20 18:42	09/30/20 00:15	
alpha-Cedrene	< LOQ	5.000E-4	%		09/28/20 18:42	09/30/20 00:15	
Cedrol	< LOQ	5.000E-4	%		09/28/20 18:42	09/30/20 00:15	
p-Cymene	< LOQ	5.000E-4	%		09/28/20 18:42	09/30/20 00:15	
(1R)-endo-(+)-Fenchyl alcoł	< LOQ	5.000E-4	%		09/28/20 18:42	09/30/20 00:15	
Eucalyptol	< LOQ	5.000E-4	%		09/28/20 18:42	09/30/20 00:15	
Geraniol	< LOQ	5.000E-4	%		09/28/20 18:42	09/30/20 00:15	
Geranyl acetate	< LOQ	5.000E-4	%		09/28/20 18:42	09/30/20 00:15	
Guaiol	< LOQ	5.000E-4	%		09/28/20 18:42	09/30/20 00:15	
alpha-Humulene	< LOQ	5.000E-4	%		09/28/20 18:42	09/30/20 00:15	
Isoborneol	< LOQ	5.000E-4	%		09/28/20 18:42	09/30/20 00:15	
Isopulegol	< LOQ	5.000E-4	%		09/28/20 18:42	09/30/20 00:15	
Limonene	< LOQ	5.000E-4	%		09/28/20 18:42	09/30/20 00:15	
Linalool	< LOQ	5.000E-4	%		09/28/20 18:42	09/30/20 00:15	
beta-Myrcene	< LOQ	5.000E-4	%		09/28/20 18:42	09/30/20 00:15	
Nerolidol	< LOQ	5.000E-4	%		09/28/20 18:42	09/30/20 00:15	
Ocimene	< LOQ	5.000E-4	%		09/28/20 18:42	09/30/20 00:15	
alpha-Pinene	< LOQ	5.000E-4	%		09/28/20 18:42	09/30/20 00:15	
beta-Pinene	< LOQ	5.000E-4	%		09/28/20 18:42	09/30/20 00:15	
Pulegone	< LOQ	5.000E-4	%		09/28/20 18:42	09/30/20 00:15	
Sabinene	< LOQ	5.000E-4	%		09/28/20 18:42	09/30/20 00:15	
Sabinene hydrate	< LOQ	5.000E-4	%		09/28/20 18:42	09/30/20 00:15	
gamma-Terpinene	< LOQ	5.000E-4	%		09/28/20 18:42	09/30/20 00:15	
alpha-Terpinene	< LOQ	5.000E-4	%		09/28/20 18:42	09/30/20 00:15	
Terpinolene	< LOQ	5.000E-4	%		09/28/20 18:42	09/30/20 00:15	
Valencene	< LOQ	5.000E-4	%		09/28/20 18:42	09/30/20 00:15	
Nerol	< LOQ	5.000E-4	%		09/28/20 18:42	09/30/20 00:15	
(+/-)-Borneol	< LOQ	5.000E-4	%		09/28/20 18:42	09/30/20 00:15	
(+/-)-Fenchone	< LOQ	5.000E-4	%		09/28/20 18:42	09/30/20 00:15	

EDIX WESTLER



Science First. ORELAP ID: 4096 OLCC#: 010-1002112892C

7200 Johnson Creek Blvd., Portland, OR 97206 (503) 307-0096

### **CBG Blue Genius**

Whole Circle Farms

Laboratory ID: 2009199-01

### **Quality Control**

### **Terpene Analysis (Continued)**

Batch: B20I104 - Terp (Continued)

Blank(B20I104-BL	K1)						
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
alpha-Phellandrene	< LOQ	5.000E-4	%		09/28/20 18:42	09/30/20 00:15	
cis-Farnesene	< LOQ	5.000E-4	%		09/28/20 18:42	09/30/20 00:15	
Menthol	< LOQ	5.000E-4	%		09/28/20 18:42	09/30/20 00:15	
trans-Farnesene	< LOQ	5.000E-4	%		09/28/20 18:42	09/30/20 00:15	
alpha-Terpineol	< LOQ	5.000E-4	%		09/28/20 18:42	09/30/20 00:15	
gamma-Terpineol	< LOQ	5.000E-4	%		09/28/20 18:42	09/30/20 00:15	
LCS(B20I104-BS1)	)						

LCS(B20I104-BS1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
alpha-Bisabolol	147	5.250E-4	%	50-150	09/28/20 18:42	09/30/20 00:47	
Camphene	124	5.250E-4	%	50-150	09/28/20 18:42	09/30/20 00:47	
beta-Caryophyllene	84.2	5.250E-4	%	50-150	09/28/20 18:42	09/30/20 00:47	
Caryophyllene Oxide	125	5.250E-4	%	50-150	09/28/20 18:42	09/30/20 00:47	
(1R)-endo-(+)-Fenchyl alcol	134	5.250E-4	%	50-150	09/28/20 18:42	09/30/20 00:47	
Guaiol	171	5.250E-4	%	50-150	09/28/20 18:42	09/30/20 00:47	Q1
alpha-Humulene	146	5.250E-4	%	50-150	09/28/20 18:42	09/30/20 00:47	
Limonene	118	5.250E-4	%	50-150	09/28/20 18:42	09/30/20 00:47	
Linalool	142	5.250E-4	%	50-150	09/28/20 18:42	09/30/20 00:47	
beta-Myrcene	79.8	5.250E-4	%	50-150	09/28/20 18:42	09/30/20 00:47	
Ocimene	146	5.250E-4	%	50-150	09/28/20 18:42	09/30/20 00:47	
alpha-Pinene	143	5.250E-4	%	50-150	09/28/20 18:42	09/30/20 00:47	
beta-Pinene	143	5.250E-4	%	50-150	09/28/20 18:42	09/30/20 00:47	
Terpinolene	138	5.250E-4	%	50-150	09/28/20 18:42	09/30/20 00:47	
(+/-)-Borneol	176	5.250E-4	%	50-150	09/28/20 18:42	09/30/20 00:47	Q1
trans-Farnesene	129	5.250E-4	%	50-150	09/28/20 18:42	09/30/20 00:47	

Batch: B20I105 - Moisture Content

Blank(B20I105-B	LK1)						
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Percent Moisture	0.200	0.00	%		09/28/20 21:50	09/28/20 21:50	
LCS(B20I105-BS	1)						
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes

80-120

CONS I POSTICE

97.9

Percent Moisture

0.00

09/28/20 21:50

09/28/20 21:50



Science First. ORELAP ID: 4096 OLCC#: 010-1002112892C

7200 Johnson Creek Blvd., Portland, OR 97206 (503) 307-0096

#### **CBG Blue Genius**

Whole Circle Farms

Laboratory ID: 2009199-01

#### **Notes and Definitions**

- B Analyte detected in method blank, but not associated samples.
- B2 Analyte detected in sample and associate methold blank.
- C Interference due to co-elution.
- D Initial result exceeded calibration range, reported data are based on analysis of a dilution.
- H Non-homogenous samle matrix affecting RPD and/or QC.
- I Manual Integration was performed.
- L Duplicate sample relative precent difference (RPD) exceeds QC limits.
- M Anomalous results due to matrix interference
- P Peaks manually split.
- Q1 QC out of limits but still oK
- Q2 Quality Control outside QC limits. Data considered estimate.
- Q3 CCV was above the acceptance criteria. Non-detect samples are considered acceptable.
- Q4 CCV was below the acceptance criteria, however the sample still exceeds the regulatory limit.
- R Marginal Exceedence.
- U Reported result is an estimate. The analyte was detected above the calibration range.
- X Problems with initial analysis, reported data are from reinjection of prepared sample.
- <LOQ Results below the Limit of Quantitation Compound not detected

EDIPLESTICE