



# Analytical Test Report

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

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

## Hawaiian Haze 2022

Lab ID: 2210079-04

Whole Circle Farms

Harvest / Process Lot: WCF-2022-HH-001

METRC Batch ID: WCF-2022-HH-001

Date Sampled: 10/14/22

Date Printed: 10/20/22

Report cannot be used for OLCC/OHA compliance.

## Potency Analysis

Analytical Method: De Backer, Journal of Chromatography b.2009. 11.004 -  
SOP 102 - Cannabinoids via High Performance Liquid Chromatography

Cannabinoids	(%)	Moisture Adjusted	LOQ	Notes
THCA	0.671	0.747	0.0515	
delta 9-THC	< LOQ	< LOQ	0.0515	
delta 8-THC	< LOQ	< LOQ	0.0515	
CBDA	19.1	21.2	0.0515	
CBDVA	0.0846	0.0942	0.0515	
CBGA	0.521	0.580	0.0515	
CBD	0.340	0.378	0.0515	
CBDV	< LOQ	< LOQ	0.0515	
CBG	0.0594	0.0661	0.0515	
CBN	< LOQ	< LOQ	0.0515	
CBC	0.345	0.384	0.0515	
Total CBG	0.516	0.574	0.0515	
Total Cannabinoids	18.6	20.7	0.0515	

**Total THC**  
**0.3 %**

**Total CBD**  
**19.0 %**

&lt;LOQ - Results below the Limit of Quantitation

Acid form of THC/CBD are decarboxylated by heat, lose 12% of original mass as CO<sub>2</sub>. Result = "bioactive"

"Total" Cannabinoid accounts for decarboxylation and moisture content. Total THC = [(THCA×0.877) + Δ9THC] / (100%-MC)

## Moisture

Analysis Method/SOP: SOP 7

Moisture: 10.2 %

**Chris Griffey**  
Lab Director

Sample tested in compliance with OAR 333-007 (TNI standards). Test results meet all requirements of NELAP and the Rose City Laboratories quality assurance plan unless otherwise noted. Samplings performed by RCL personnel follow sampling SOP 30. Samples not collected by RCL personnel are analyzed in "as received" condition. These results relate only to the sample included on this report. The report may not be reproduced except in full, without the written permission of Rose City Labs.



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### Quality Control Potency

Batch: B22J115 - Potency

#### Blank(B22J115-BLK1)

Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
THCA	< LOQ	0.0500	%		10/19/22 18:19	10/19/22 20:24	
delta 9-THC	< LOQ	0.0500	%		10/19/22 18:19	10/19/22 20:24	
CBGA	< LOQ	0.0500	%		10/19/22 18:19	10/19/22 20:24	
CBDA	< LOQ	0.0500	%		10/19/22 18:19	10/19/22 20:24	
CBD	< LOQ	0.0500	%		10/19/22 18:19	10/19/22 20:24	
CBN	< LOQ	0.0500	%		10/19/22 18:19	10/19/22 20:24	
CBG	< LOQ	0.0500	%		10/19/22 18:19	10/19/22 20:24	
delta 8-THC	< LOQ	0.0500	%		10/19/22 18:19	10/19/22 20:24	
CBC	< LOQ	0.0500	%		10/19/22 18:19	10/19/22 20:24	
Total CBG	< LOQ	0.0500	%		10/19/22 18:19	10/19/22 20:24	
CBDVA	< LOQ	0.0500	%		10/19/22 18:19	10/19/22 20:24	
CBDV	< LOQ	0.0500	%		10/19/22 18:19	10/19/22 20:24	

#### LCS(B22J115-BS1)

Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
THCA	96.3	0.0525	%	90-110	10/19/22 18:19	10/19/22 20:40	
delta 9-THC	97.9	0.0525	%	90-110	10/19/22 18:19	10/19/22 20:40	
CBDA	97.4	0.0525	%	90-110	10/19/22 18:19	10/19/22 20:40	
CBD	99.2	0.0525	%	90-110	10/19/22 18:19	10/19/22 20:40	
delta 8-THC	98.4	0.0525	%	90-110	10/19/22 18:19	10/19/22 20:40	

### Moisture Content

Batch: B22J117 - Moisture Content

#### Blank(B22J117-BLK1)

Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Percent Moisture	0.200	0.00	%		10/20/22 12:42	10/20/22 12:42	

#### LCS(B22J117-BS1)

Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Percent Moisture	86.0	0.00	%	80-120	10/20/22 12:42	10/20/22 12:42	

Chris Griffey  
Lab Director



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### Notes and Definitions

- B Analyte detected in method blank, but not associated samples.
  - B2 Analyte detected in sample and associate method 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 sample matrix affecting RPD and/or QC.
  - I Manual Integration was performed.
  - L Duplicate sample relative percent 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

A handwritten signature in black ink that reads "Chris Griffey".

**Chris Griffey**  
Lab Director