



Analytical Test Report

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

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

Whole Circle Farms Tincture

Lab ID: 2304056-03 & 2304056-04

ACT 1 ESSENTIALS

330-1045887IHH

Harvest / Process Lot: WCF2019.SHHW.2022.Lot33

METRC Batch ID: WCF2019.SHHW.2022.Lot33

METRC Sample Tag: WCF2019.SHHW.2022.Lot33 Date

Sampled: 04/06/23

Date Printed: 09/20/23

This is an official amended report.

Original report printed 04/13/23 - Report amended at the clients request to change the name of the product and to change the Total THC units.

Potency Analysis

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

Cannabinoids	mg/g	LOQ
THCA	0.100	0.0548
delta 9-THC	0.328	0.0548
delta 8-THC	<LOQ	0.0548
CBDA	11.6	0.0548
CBDVA	0.523	0.0548
CBGA	0.168	0.0548
CBD	5.63	0.0548
CBDV	0.280	0.0548
CBG	0.459	0.0548
CBN	0.180	0.0548
CBC	0.517	0.0548
Total CBG	0.607	0.0548
Total Cannabinoids	18.3	0.0548

Total THC

0.0417 %

THC RPD: 3.36%

Total CBD

15.8 mg/g

CBD RPD: 0.631%

<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×0.877) + Δ9THC] / (100%-MC)

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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CBDA	11.6	0.0548	
CBDVA	0.523	0.0548	
CBGA	0.168	0.0548	
CBD	5.62	0.0548	
CBDV	0.279	0.0548	
CBG	0.457	0.0548	
CBN	0.182	0.0548	
CBC	0.519	0.0548	
Total CBG	0.605	0.0548	
Total Cannabinoids	18.3	0.0548	

Total THC
0.0424 %

Total CBD
15.8 mg/g

<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×0.877) + Δ9THC] / (100%-MC)

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Lab Director

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Quality Control Potency

Batch: B23D091 - Potency

Blank(B23D091-BLK1)

Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
THCA	< LOQ	0.0550	mg/g		04/11/23 08:23	04/11/23 11:48	
delta 9-THC	< LOQ	0.0550	mg/g		04/11/23 08:23	04/11/23 11:48	
CBGA	< LOQ	0.0550	mg/g		04/11/23 08:23	04/11/23 11:48	
CBDA	< LOQ	0.0550	mg/g		04/11/23 08:23	04/11/23 11:48	
CBD	< LOQ	0.0550	mg/g		04/11/23 08:23	04/11/23 11:48	
CBN	< LOQ	0.0550	mg/g		04/11/23 08:23	04/11/23 11:48	
CBG	< LOQ	0.0550	mg/g		04/11/23 08:23	04/11/23 11:48	
delta 8-THC	< LOQ	0.0550	mg/g		04/11/23 08:23	04/11/23 11:48	
CBC	< LOQ	0.0550	mg/g		04/11/23 08:23	04/11/23 11:48	
Total CBG	< LOQ	0.0550	mg/g		04/11/23 08:23	04/11/23 11:48	
CBDVA	< LOQ	0.0550	mg/g		04/11/23 08:23	04/11/23 11:48	
CBDV	< LOQ	0.0550	mg/g		04/11/23 08:23	04/11/23 11:48	

LCS(B23D091-BS1)

Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
THCA	104	0.0526	mg/g	90-110	04/11/23 08:23	04/11/23 12:03	
delta 9-THC	108	0.0526	mg/g	90-110	04/11/23 08:23	04/11/23 12:03	
CBDA	104	0.0526	mg/g	90-110	04/11/23 08:23	04/11/23 12:03	
CBD	104	0.0526	mg/g	90-110	04/11/23 08:23	04/11/23 12:03	
delta 8-THC	103	0.0526	mg/g	90-110	04/11/23 08:23	04/11/23 12:03	

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 associated 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

Chris Griffey
Lab Director

A handwritten signature in black ink, appearing to read "Chris Griffey".