

**SAMPLE NAME: OG**

Other

**CULTIVATOR / MANUFACTURER**

**Business Name:**

**License Number:**

**Address:**

**DISTRIBUTOR**

**Business Name:** Tonic CBD

**License Number:**

**Address:** 2466 Pennsylvania Ave  
Sayre PA 18840

**SAMPLE DETAIL**

**Batch Number:** 2-0124B

**Sample ID:** 200903S008

**Date Collected:** 09/03/2020

**Date Received:** 09/03/2020

**Batch Size:**

**Sample Size:** 1.0 Gram(s)

**Unit Mass:** 30.522 Grams per Unit

**Serving Size:**



Scan QR code to verify authenticity of results.

**CANNABINOID ANALYSIS - SUMMARY**

**Total THC: 31 mg/unit**

**Total CBD: 731.490 mg/unit**

**Sum of Cannabinoids: 797.143 mg/unit**

**Total Cannabinoids: 792.799 mg/unit**

Total THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during the decarboxylation step:  
 Total THC =  $\Delta 9\text{THC} + (\text{THCa} \cdot 0.877)$   
 Total CBD =  $\text{CBD} + (\text{CBDa} \cdot 0.877)$   
 Sum of Cannabinoids =  $\Delta 9\text{THC} + \text{THCa} + \text{CBD} + \text{CBDa} + \text{CBG} + \text{CBGa} + \text{THCV} + \text{THCVa} + \text{CBC} + \text{CBCa} + \text{CBDV} + \text{CBDVa} + \Delta 8\text{THC} + \text{CBL} + \text{CBN}$   
 Total Cannabinoids =  $(\Delta 9\text{THC} + 0.877 \cdot \text{THCa}) + (\text{CBD} + 0.877 \cdot \text{CBDa}) + (\text{CBG} + 0.877 \cdot \text{CBGa}) + (\text{THCV} + 0.877 \cdot \text{THCVa}) + (\text{CBC} + 0.877 \cdot \text{CBCa}) + (\text{CBDV} + 0.877 \cdot \text{CBDVa}) + \Delta 8\text{THC} + \text{CBL} + \text{CBN}$

**Moisture: NT**

**Density: 1.0174 g/mL**

**Viscosity: NT**

**SAFETY ANALYSIS - SUMMARY**

**Pesticides: NT**

**Mycotoxins: NT**

**Residual Solvents: NT**

**Heavy Metals: NT**

**Microbial Impurities (PCR): ✔ PASS**

**Microbial Impurities (Plating): NT**

**Foreign Material: NT**

**Water Activity: NT**

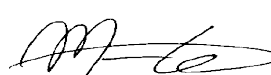
**Vitamin E Acetate: NT**

For quality assurance purposes. Not a Pre-Harvest Hemp Lab Test Report. These results relate only to the sample included on this report. This report shall not be reproduced, except in full, without written approval of the laboratory.

**Sample Certification:** California Code of Regulations Title 16 Effect Date January 16, 2019. Authority: Section 26013, Business and Professions Code. Reference: Sections 26100, 26104 and 26110, Business and Professions Code.

**Decision Rule:** Statements of conformity (e.g. Pass/Fail) to specifications are made in this report without taking measurement uncertainty into account. Where statements of conformity are made in this report, the following decision rules are applied: PASS - Results within limits/specifications, FAIL - Results exceed limits/specifications.

**References:** limit of detection (LOD), limit of quantification (LOQ), not detected (ND), not tested (NT)

  
 LQC verified by: Maria Garcia  
 Date: 09/05/2020

  
 Approved by: Josh Wurzer, President  
 Date: 09/05/2020



## Cannabinoid Analysis

Tested by high-performance liquid chromatography with diode-array detection (HPLC-DAD).

Method: QSP - (1157) Analysis of Cannabinoids by HPLC-DAD

**TOTAL THC: 31 mg/unit**

Total THC ( $\Delta 9\text{THC} + 0.877 \cdot \text{THCa}$ )

**TOTAL CBD: 731.490 mg/unit**

Total CBD ( $\text{CBD} + 0.877 \cdot \text{CBDa}$ )

**TOTAL CANNABINOIDS: 792.799 mg/unit**

Total Cannabinoids (Total THC) + (Total CBD) + (Total CBG) + (Total THCV) + (Total CBC) + (Total CBDV) +  $\Delta 8\text{THC}$  + CBL + CBN

**TOTAL CBG: ND**

Total CBG ( $\text{CBG} + 0.877 \cdot \text{CBGa}$ )

**TOTAL THCv: ND**

Total THCv ( $\text{THCV} + 0.877 \cdot \text{THCVa}$ )

**TOTAL CBC: 24.906 mg/unit**

Total CBC ( $\text{CBC} + 0.877 \cdot \text{CBCa}$ )

**TOTAL CBDV: 3.724 mg/unit**

Total CBDV ( $\text{CBDV} + 0.877 \cdot \text{CBDVa}$ )

### CANNABINOID TEST RESULTS - 09/04/2020

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
CBD	0.004 / 0.011	$\pm 1.1473$	23.953	2.3953
$\Delta 9\text{THC}$	0.002 / 0.005	$\pm 0.0815$	1.156	0.1156
CBC	0.003 / 0.010	$\pm 0.0338$	0.816	0.0816
CBDV	0.002 / 0.007	$\pm 0.0064$	0.122	0.0122
CBL	0.003 / 0.008	$\pm 0.0014$	0.029	0.0029
CBN	0.001 / 0.004	$\pm 0.0010$	0.026	0.0026
CBDa	0.001 / 0.003	$\pm 0.0005$	0.015	0.0015
$\Delta 8\text{THC}$	0.01 / 0.02	N/A	ND	ND
THCa	0.001 / 0.002	N/A	ND	ND
THCV	0.002 / 0.008	N/A	ND	ND
THCVa	0.002 / 0.005	N/A	ND	ND
CBDVa	0.001 / 0.003	N/A	ND	ND
CBG	0.002 / 0.005	N/A	ND	ND
CBGa	0.002 / 0.006	N/A	ND	ND
CBCa	0.001 / 0.004	N/A	ND	ND
<b>SUM OF CANNABINOIDS</b>			26.117 mg/g	2.6117%

### Unit Mass: 30.522 Grams per Unit

$\Delta 9\text{THC}$ per Unit	35.283 mg/unit
Total THC per Unit	31 mg/unit
CBD per Unit	731.093 mg/unit
Total CBD per Unit	731.490 mg/unit
Sum of Cannabinoids per Unit	797.143 mg/unit
Total Cannabinoids per Unit	792.799 mg/unit

### MOISTURE TEST RESULT

Not Tested

### DENSITY TEST RESULT

1.0174 g/mL

Tested 09/04/2020

Method: QSP - (1152) Sample Preparation

### VISCOSITY TEST RESULT

Not Tested



 **Microbial Impurities Analysis**  
 PCR AND PLATING

Analysis conducted by polymerase chain reaction (PCR) and fluorescence detection of microbial impurities.

**Method:** QSP - (1221) Analysis of Microbial Impurities

Analysis conducted by 3M™ Petrifilm™ and plate counts of microbial impurities.

**Method:** QSP - (6794) Plating with 3M™ Petrifilm™

**MICROBIAL IMPURITIES TEST RESULTS (PCR) - 09/05/2020** ✔ PASS

COMPOUND	ACTION LIMIT	RESULT	RESULT
Shiga toxin-producing <i>Escherichia coli</i>	Detect	ND	PASS
<i>Salmonella</i> spp.	Detect	ND	PASS
<i>Aspergillus fumigatus</i>		NT	
<i>Aspergillus flavus</i>		NT	
<i>Aspergillus niger</i>		NT	
<i>Aspergillus terreus</i>		NT	

**MICROBIAL IMPURITIES TEST RESULTS (PLATING)**

COMPOUND	RESULT (cfu/g)
Aerobic Plate Count	NT
Total Yeast and Mold	NT

