SC Labs®

# Hemp Quality Assurance Testing
# CERTIFICATE OF ANALYSIS

**DATE ISSUED 02/10/2025**

## SAMPLE DETAILS

### SAMPLE NAME: Birdie Blood Orange Hibiscus

Beverage, Liquid Edible

### CULTIVATOR / MANUFACTURER

**Business Name:**
**License Number:**
**Address:**

### DISTRIBUTOR / TESTED FOR

**Business Name:** Wild State Cider
**License Number:**
**Address:**


### SAMPLE DETAIL

**Batch Number:** 2580302
**Sample ID:** 250205M001

**Date Collected:** 02/05/2025
**Date Received:** 02/05/2025
**Batch Size:**
**Sample Size:** 1.0 units
**Unit Mass:** 355 milliliters per Unit
**Serving Size:** 177 milliliters per Serving

Scan QR code to verify authenticity of results.

## CANNABINOID ANALYSIS - SUMMARY

**Total THC:** 10.2240 mg/unit

**Total CBD:** Not Detected

**Sum of Cannabinoids:** 10.4015 mg/unit

**Total Cannabinoids:** 10.4015 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 = $\Delta^9$-THC + (THCa (0.877))
Total CBD = CBD + (CBDa (0.877))
Sum of Cannabinoids = $\Delta^9$-THC + THCa + CBD + CBDa + CBG + CBGa + THCV + THCVa + CBC + CBCa + CBDV + CBDVa + $\Delta^8$-THC + CBL + CBN
Total Cannabinoids = ($\Delta^9$-THC+0.877*THCa) + (CBD+0.877*CBDa) + (CBG+0.877*CBGa) + (THCV+0.877*THCVa) + (CBC+0.877*CBCa) + (CBDV+0.877*CBDVa) + $\Delta^8$-THC + CBL + CBN

**Density:** 1.0161 g/mL

## SAFETY ANALYSIS - SUMMARY

$\Delta^9$-THC per Unit: PASS
Pesticides: PASS
Mycotoxins: PASS
Residual Solvents: PASS
Heavy Metals: PASS
Microbiology (PCR): PASS
Microbiology (Plating): ND

For quality assurance purposes. Not a Regulatory 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 4 Division 19. Department of Cannabis Control 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), µg/g = ppm, µg/kg = ppb, too numerous to count >250 cfu/plate (TNTC), colony-forming unit (cfu)

LQC verified by: Maria Garcia
Job Title: Senior Laboratory Analyst
Date: 02/10/2025

Approved by: Josh Wurzer
Job Title: Chief Compliance Officer
Date: 02/10/2025

## 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: 10.2240 mg/unit

Total THC ($\Delta^9$-THC+0.877*THCa)

### TOTAL CBD: Not Detected

Total CBD (CBD+0.877*CBDa)

### TOTAL CANNABINOIDS: 10.4015 mg/unit

Total Cannabinoids (Total THC) + (Total CBD) + (Total CBG) + (Total THCV) + (Total CBC) + (Total CBDV) + $\Delta^8$-THC + CBL + CBN

### TOTAL CBG: ND

Total CBG (CBG+0.877*CBGa)

### TOTAL THCV: ND

Total THCV (THCV+0.877*THCVa)

### TOTAL CBC: ND

Total CBC (CBC+0.877*CBCa)

### TOTAL CBDV: ND

Total CBDV (CBDV+0.877*CBDVa)

### CANNABINOID TEST RESULTS - 02/06/2025

| COMPOUND | LOD/LOQ (mg/mL) | MEASUREMENT UNCERTAINTY (mg/mL) | RESULT (mg/mL) | RESULT (%) |
|---|---|---|---|---|
| $\Delta^9$-THC | *0.0001 / 0.0005* | *±0.00158* | **0.0288** | **0.00283** |
| CBN | *0.0001 / 0.0003* | *±0.00001* | **0.0005** | **0.00005** |
| $\Delta^8$-THC | *0.0003 / 0.0008* | *N/A* | **ND** | **ND** |
| THCa | *0.0001 / 0.0002* | *N/A* | **ND** | **ND** |
| THCV | *0.0001 / 0.0005* | *N/A* | **ND** | **ND** |
| THCVa | *0.0001 / 0.0007* | *N/A* | **ND** | **ND** |
| CBD | *0.0001 / 0.0004* | *N/A* | **ND** | **ND** |
| CBDa | *0.0001 / 0.0010* | *N/A* | **ND** | **ND** |
| CBDV | *0.0001 / 0.0005* | *N/A* | **ND** | **ND** |
| CBDVa | *0.0001 / 0.0007* | *N/A* | **ND** | **ND** |
| CBG | *0.0001 / 0.0002* | *N/A* | **ND** | **ND** |
| CBGa | *0.0001 / 0.0003* | *N/A* | **ND** | **ND** |
| CBL | *0.0001 / 0.0004* | *N/A* | **ND** | **ND** |
| CBC | *0.0001 / 0.0004* | *N/A* | **ND** | **ND** |
| CBCa | *0.0001 / 0.0006* | *N/A* | **ND** | **ND** |
| **SUM OF CANNABINOIDS** | | | **0.0293 mg/mL** | **0.00288%** |

Unit Mass: 355 milliliters per Unit / Serving Size: 177 milliliters per Serving

| | | | |
|---|---|---|---|
| $\Delta^9$-THC per Unit | *110 per-package limit* | **10.2240 mg/unit** | **PASS** |
| $\Delta^9$-THC per Serving | | **5.0976 mg/serving** | |
| Total THC per Unit | | **10.2240 mg/unit** | |
| Total THC per Serving | | **5.0976 mg/serving** | |
| CBD per Unit | | **ND** | |
| CBD per Serving | | **ND** | |
| Total CBD per Unit | | **ND** | |
| Total CBD per Serving | | **ND** | |
| Sum of Cannabinoids per Unit | | **10.4015 mg/unit** | |
| Sum of Cannabinoids per Serving | | **5.1861 mg/serving** | |
| Total Cannabinoids per Unit | | **10.4015 mg/unit** | |
| Total Cannabinoids per Serving | | **5.1861 mg/serving** | |

### DENSITY TEST RESULT

**1.0161 g/mL**

Tested 02/06/2025

**Method:** QSP 7870 - Sample Preparation

## Pesticide Analysis

Pesticide and plant growth regulator analysis utilizing high-performance liquid chromatography-mass spectrometry (HPLC-MS) or gas chromatography-mass spectrometry (GC-MS).

*GC-MS utilized where indicated.

**Method:** QSP 1212 - Analysis of Pesticides and Mycotoxins by LC-MS or QSP 1213 - Analysis of Pesticides by GC-MS

**PESTICIDE TEST RESULTS** - 02/10/2025 PASS

| COMPOUND | LOD/LOQ (µg/g) | ACTION LIMIT (µg/g) | MEASUREMENT UNCERTAINTY (µg/g) | RESULT (µg/g) | RESULT |
|---|---|---|---|---|---|
| Abamectin | *0.03 / 0.10* | *0.3* | *N/A* | ND | PASS |
| Azoxystrobin | *0.02 / 0.07* | *40* | *N/A* | ND | PASS |
| Bifenazate | *0.01 / 0.04* | *5* | *N/A* | ND | PASS |
| Bifenthrin | *0.02 / 0.05* | *0.5* | *N/A* | ND | PASS |
| Boscalid | *0.03 / 0.09* | *10* | *N/A* | ND | PASS |
| Chlorpyrifos | *0.02 / 0.06* | *≥ LOD* | *N/A* | ND | PASS |
| Cypermethrin | *0.11 / 0.32* | *1* | *N/A* | ND | PASS |
| Etoxazole | *0.02 / 0.06* | *1.5* | *N/A* | ND | PASS |
| Hexythiazox | *0.02 / 0.07* | *2* | *N/A* | ND | PASS |
| Imidacloprid | *0.04 / 0.11* | *3* | *N/A* | ND | PASS |
| Malathion | *0.03 / 0.09* | *5* | *N/A* | ND | PASS |
| Myclobutanil | *0.03 / 0.09* | *9* | *N/A* | ND | PASS |
| Permethrin | *0.04 / 0.12* | *20* | *N/A* | ND | PASS |
| Piperonyl Butoxide | *0.02 / 0.07* | *8* | *N/A* | ND | PASS |
| Propiconazole | *0.02 / 0.07* | *20* | *N/A* | ND | PASS |
| Spiromesifen | *0.02 / 0.05* | *12* | *N/A* | ND | PASS |
| Tebuconazole | *0.02 / 0.07* | *2* | *N/A* | ND | PASS |
| Trifloxystrobin | *0.03 / 0.08* | *30* | *N/A* | ND | PASS |

## Mycotoxin Analysis

Mycotoxin analysis utilizing high-performance liquid chromatography-mass spectrometry (HPLC-MS).

**Method:** QSP 1212 - Analysis of Pesticides and Mycotoxins by LC-MS

**MYCOTOXIN TEST RESULTS** - 02/08/2025 PASS

| COMPOUND | LOD/LOQ (µg/kg) | ACTION LIMIT (µg/kg) | MEASUREMENT UNCERTAINTY (µg/kg) | RESULT (µg/kg) | RESULT |
|---|---|---|---|---|---|
| Aflatoxin B1 | *2.0 / 6.0* | | *N/A* | ND | |
| Aflatoxin B2 | *1.8 / 5.6* | | *N/A* | ND | |
| Aflatoxin G1 | *1.0 / 3.1* | | *N/A* | ND | |
| Aflatoxin G2 | *1.2 / 3.5* | | *N/A* | ND | |
| Ochratoxin A | *6.3 / 19.2* | *20* | *N/A* | ND | PASS |
| Total Aflatoxin | | *20* | | ND | PASS |

## Residual Solvents Analysis

Residual Solvent analysis utilizing gas chromatography-mass spectrometry (GC-MS).

**Method:** QSP 1204 - Analysis of Residual Solvents by GC-MS

**RESIDUAL SOLVENTS TEST RESULTS** - 02/06/2025 PASS

| COMPOUND | LOD/LOQ (µg/g) | ACTION LIMIT (µg/g) | MEASUREMENT UNCERTAINTY (µg/g) | RESULT (µg/g) | RESULT |
|---|---|---|---|---|---|
| Propane | *10 / 20* | *5000* | *N/A* | ND | PASS |
| n-Butane | *10 / 50* | *5000* | *N/A* | ND | PASS |
| n-Pentane | *20 / 50* | *5000* | *N/A* | ND | PASS |
| n-Hexane | *2 / 5* | *290* | *N/A* | ND | PASS |
| n-Heptane | *20 / 60* | *5000* | *N/A* | ND | PASS |
| Benzene | *0.03 / 0.09* | *1* | *N/A* | ND | PASS |
| Toluene | *7 / 21* | *890* | *N/A* | ND | PASS |

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## Residual Solvents Analysis
*Continued*

**RESIDUAL SOLVENTS TEST RESULTS -** 02/06/2025 *continued* PASS

| COMPOUND | LOD/LOQ (µg/g) | ACTION LIMIT (µg/g) | MEASUREMENT UNCERTAINTY (µg/g) | RESULT (µg/g) | RESULT |
|---|---|---|---|---|---|
| Total Xylenes | *50 / 160* | *2170* | *N/A* | ND | PASS |
| Methanol | *50 / 200* | *3000* | *N/A* | ND | PASS |
| Ethanol | *20 / 50* | *5000* | *N/A* | <LOQ | PASS |
| 2-Propanol (Isopropyl Alcohol) | *10 / 40* | *5000* | *N/A* | ND | PASS |
| Acetone | *20 / 50* | *5000* | *N/A* | <LOQ | PASS |
| Ethyl Ether | *20 / 50* | *5000* | *N/A* | ND | PASS |
| Ethylene Oxide | *0.3 / 0.8* | *1* | *N/A* | ND | PASS |
| Ethyl Acetate | *20 / 60* | *5000* | *N/A* | ND | PASS |
| Chloroform | *0.1 / 0.2* | *1* | *N/A* | ND | PASS |
| Dichloromethane (Methylene Chloride) | *0.3 / 0.9* | *1* | *N/A* | ND | PASS |
| Trichloroethylene | *0.1 / 0.3* | *1* | *N/A* | ND | PASS |
| 1,2-Dichloroethane | *0.05 / 0.1* | *1* | *N/A* | ND | PASS |
| Acetonitrile | *2 / 7* | *410* | *N/A* | ND | PASS |

## Heavy Metals Analysis

Heavy metal analysis utilizing inductively coupled plasma-mass spectrometry (ICP-MS).

**Method:** QSP 1160 - Analysis of Heavy Metals by ICP-MS

**HEAVY METALS TEST RESULTS -** 02/07/2025 PASS

| COMPOUND | LOD/LOQ (µg/g) | ACTION LIMIT (µg/g) | MEASUREMENT UNCERTAINTY (µg/g) | RESULT (µg/g) | RESULT |
|---|---|---|---|---|---|
| Arsenic | *0.02 / 0.1* | *1.5* | *N/A* | ND | PASS |
| Cadmium | *0.02 / 0.05* | *0.5* | *N/A* | ND | PASS |
| Lead | *0.04 / 0.1* | *0.5* | *N/A* | ND | PASS |
| Mercury | *0.002 / 0.01* | *3* | *N/A* | ND | PASS |

## Microbiology Analysis

PCR AND PLATING

Analysis conducted by polymerase chain reaction (PCR) and fluorescence detection of microbiological contaminants.

**Method:** QSP 1221 - Analysis of Microbiological Contaminants

**MICROBIOLOGY TEST RESULTS (PCR) -** 02/08/2025 PASS

| COMPOUND | ACTION LIMIT (cfu/g) | RESULT (cfu/g) | RESULT |
|---|---|---|---|
| Bile-Tolerant Gram-Negative Bacteria | | ND | |
| *Salmonella* spp. | *Not Detected in 1g* | ND | PASS |
| Shiga toxin-producing *Escherichia coli* | *Not Detected in 1g* | ND | PASS |
| *Staphylococcus aureus* | | ND | |

## Microbiology Analysis *Continued*

Analysis conducted by 3M™ Petrifilm™ and plate counts of microbiological contaminants.

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

**MICROBIOLOGY TEST RESULTS (PLATING) -** 02/08/2025 **ND**

| COMPOUND | RESULT (cfu/g) |
|---|---|
| Total Aerobic Bacteria | ND |
| Total Yeast and Mold | ND |

**NOTES**
Sample unit mass provided by client.