

**SAMPLE NAME: 12000 mg Full Spectrum CBD**

Infused, Hemp Infused

**CULTIVATOR / MANUFACTURER**
**Business Name:**
**License Number:**
**Address:**
**DISTRIBUTOR / TESTED FOR**
**Business Name:** Biva Nutrition, LLC

**License Number:**
**Address:**
**SAMPLE DETAIL**
**Batch Number:** FF023

**Sample ID:** 230130R022

**Date Collected:** 01/30/2023

**Date Received:** 01/30/2023

**Batch Size:**
**Sample Size:** 1.0 units

**Unit Mass:** 30 milliliters per Unit

**Serving Size:** 1 milliliters per Serving


Scan QR code to verify authenticity of results.

**CANNABINOID ANALYSIS - SUMMARY**
**Total THC: 22.620 mg/unit**
**Total CBD: 13243.710 mg/unit**
**Sum of Cannabinoids: 13458.510 mg/unit**
**Total Cannabinoids: 13458.510 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:

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

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

$$\text{Sum of Cannabinoids} = \Delta^9\text{-THC} + \text{THCa} + \text{CBD} + \text{CBDa} + \text{CBG} + \text{CBGa} +$$

$$\text{THCV} + \text{THCVa} + \text{CBC} + \text{CBCa} + \text{CBDV} + \text{CBDVa} + \Delta^8\text{-THC} + \text{CBL} + \text{CBN}$$

$$\text{Total Cannabinoids} = (\Delta^9\text{-THC} + 0.877 \cdot \text{THCa}) + (\text{CBD} + 0.877 \cdot \text{CBDa}) +$$

$$(\text{CBG} + 0.877 \cdot \text{CBGa}) + (\text{THCV} + 0.877 \cdot \text{THCVa}) + (\text{CBC} + 0.877 \cdot \text{CBCa}) +$$

$$(\text{CBDV} + 0.877 \cdot \text{CBDVa}) + \Delta^8\text{-THC} + \text{CBL} + \text{CBN}$$
**Density: 0.9772 g/mL**

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:** Action Limits used in this report are a compilation of guidance from state regulatory agencies in all states except Alaska. Action limits for required tests are the lower of any conflicting state regulations.

**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: Michael Pham  
 Job Title: Senior Laboratory Analyst  
 Date: 02/03/2023



 Approved by: Josh Wurzer  
 Job Title: President  
 Date: 02/03/2023



## 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: 22.620 mg/unit

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

### TOTAL CBD: 13243.710 mg/unit

Total CBD (CBD+0.877\*CBDA)

### TOTAL CANNABINOIDS: 13458.510 mg/unit

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

### TOTAL CBG: 23.580 mg/unit

Total CBG (CBG+0.877\*CBGa)

### TOTAL THCV: ND

Total THCV (THCV+0.877\*THCVa)

### TOTAL CBC: 79.560 mg/unit

Total CBC (CBC+0.877\*CBCa)

### TOTAL CBDV: 41.730 mg/unit

Total CBDV (CBDV+0.877\*CBDVa)

## CANNABINOID TEST RESULTS - 02/03/2023

COMPOUND	LOD/LOQ (mg/mL)	MEASUREMENT UNCERTAINTY (mg/mL)	RESULT (mg/mL)	RESULT (%)
CBD	0.080 / 0.220	±16.4663	441.457	45.1757
CBC	0.003 / 0.010	±0.0854	2.652	0.2714
CBDV	0.002 / 0.012	±0.0568	1.391	0.1423
CBN	0.001 / 0.007	±0.0389	1.356	0.1388
CBG	0.002 / 0.006	±0.0381	0.786	0.0804
$\Delta^9$ -THC	0.002 / 0.014	±0.0414	0.754	0.0772
CBL	0.003 / 0.010	±0.0082	0.221	0.0226
$\Delta^8$ -THC	0.01 / 0.02	N/A	ND	ND
THCa	0.001 / 0.005	N/A	ND	ND
THCV	0.002 / 0.012	N/A	ND	ND
THCVa	0.002 / 0.019	N/A	ND	ND
CBDA	0.001 / 0.026	N/A	ND	ND
CBDVa	0.001 / 0.018	N/A	ND	ND
CBGa	0.002 / 0.007	N/A	ND	ND
CBCa	0.001 / 0.015	N/A	ND	ND
<b>SUM OF CANNABINOIDS</b>			<b>448.617 mg/mL</b>	<b>45.9084%</b>

## Unit Mass: 30 milliliters per Unit / Serving Size: 1 milliliters per Serving

$\Delta^9$ -THC per Unit	22.620 mg/unit
$\Delta^9$ -THC per Serving	0.754 mg/serving
Total THC per Unit	22.620 mg/unit
Total THC per Serving	0.754 mg/serving
CBD per Unit	13243.710 mg/unit
CBD per Serving	441.457 mg/serving
Total CBD per Unit	13243.710 mg/unit
Total CBD per Serving	441.457 mg/serving
Sum of Cannabinoids per Unit	13458.510 mg/unit
Sum of Cannabinoids per Serving	448.617 mg/serving
Total Cannabinoids per Unit	13458.510 mg/unit
Total Cannabinoids per Serving	448.617 mg/serving

## DENSITY TEST RESULT

0.9772 g/mL

Tested 02/03/2023

**Method:** QSP 7870 - Sample Preparation