

# CERTIFICATE OF ANALYSIS

Date : Thursday, July 30, 2020

## CUSTOMER INFORMATION



## SAMPLE INFORMATION

**Sample Name:** CHC INV 1212 5000mg T Free Tincture  
**Sample Description:** Oil  
**Sample ID:** SAMPLE- 2366  
**Sample Received On:** 07/29/2020

## TESTING LAB

**ECC Test Lab**  
**3154 State Street, Suite 2010**  
**Blacksburg, VA 24060**  
**540-682-3765**  
**info@ecctestlab.com**

## SAMPLE IMAGES



## TESTS INFORMATION

CANNABINOID POTENCY,

RESULTS CERTIFIED BY: LAB DIRECTOR

Thursday, July 30, 2020



CANNABINOID POTENCY				
ANALYTE	LOD (mg/g)	LOQ (mg/g)	Concentration (mg/g)	Concentration (%)
CBD	0.07	0.23	144.89	14.49
CBDA	0.07	0.23	0.35	0.03
delta-9 THC	0.07	0.23	ND	ND
delta-9 THCA	0.07	0.23	ND	ND
CBG	0.07	0.23	1.46	0.15
CBGA	0.07	0.23	0.81	0.08
CBN	0.07	0.23	ND	ND
CBC	0.07	0.23	0.42	0.04
delta-8 THC	0.07	0.23	ND	ND
THCV	0.07	0.23	ND	ND
Total CBD			145.20	14.52
Total THC			0.00	0.00


Total CBD = CBDA \* 0.877 + CBD

Total delta-9 THC = THCA \* 0.877 + delta-9 THC

The Measurement Uncertainty for Total THC at 0.3% is +/-0.05%. The range for Total THC is 0.25% - 0.35%.

**Defining Terms:**

- ND = Not Detected
- LOD = Limit of Detection
- LOQ = Limit of Quantification
- PPM = Parts per Million = mg/kg
- PPB = Parts per Billion = ug/kg
- CFU/g = Colony Forming Units per gram

<p><b>Prepared by:</b></p>  <p><b>Rebecca Hobden</b> CEO &amp; Lab Manager</p>	<p>Testing results are based solely on the sample submitted to ECC Test Lab in the condition it was received. This product has been tested by ECC Test Lab using valid testing methodologies. Values reported relating only to the product tested. ECC Test Lab makes no claims as to the efficacy, safety, or other risks with any detected or non-detected levels of any compound reported herein. This Certificate of Analysis shall not be reproduced except in full without the express written consent of the ECC Test Lab.</p>
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**Notes on Analyte Limits**

**NMT = Not More Than**

**Heavy Metals Recommended Limits:**

- NMT 10ppm for arsenic
- NMT 4.1ppm for cadmium
- NMT 10ppm for lead
- NMT 2ppm for methyl mercury

These limits are adopted from the American Herbal Pharmacopoeia for Cannabis Inflorescence (2014) which is published by the American Herbal Products Association. Note: Heavy metal limits set by requirements from the Food Safety Program of the Virginia Department of Agriculture and Consumer Services (VDACS) for hemp-derived extract intended for human consumption are different for lead at NMT 6 ppm.

**Mycotoxins Recommended Limits:**

- NMT 5ppb for Aflatoxin B1
- NMT than 20ppb for the sum of Aflatoxins B1, B2, G1, and G2

These limits are adopted from the United States Pharmacopoeial Convention. USP38-NF33 <561> Articles of Botanical Origin.

**Residual Solvents Recommended Limits:**

NMT 5000ppm for Class 3 Solvents

All residual solvents test at ECC Test Lab are Class 3 solvents except the ones listed below with recommended limits:

NMT 3880ppm for cyclohexane



NMT 3000ppm for methanol  
NMT 2170ppm for xylene  
NMT 1500ppm for trichloroethene  
NMT 890ppm for toluene  
NMT 600ppm for methylene chloride  
NMT 410ppm for acetonitrile  
NMT 290ppm for *n*-Hexane  
NMT 60ppm for chloroform  
NMT 5ppm for 1,2-Dichloroethane  
NMT 2ppm for benzene

These limits are adopted from the United States Pharmacopeial Convention. USP <467> Residual Solvents.

**Microbial Recommended Limits:**

Raw Plant Material<sup>1</sup>:

NMT 10<sup>5</sup> CFU/g for TAMC

NMT 10<sup>3</sup> CFU/g for TYAC

Absence of *E.coli* and *Salmonella* Spp.

Products for human consumption in a Non-aqueous matrix<sup>2</sup>:

NMT 10<sup>3</sup> CFU/g for TAMC

NMT 10<sup>2</sup> CFU/g for TYAC

Absence of *E.coli* and *Salmonella* Spp.

Products for human consumption in a Aqueous matrix<sup>2</sup>:

NMT 10<sup>2</sup> CFU/g for TAMC

NMT 10<sup>1</sup> CFU/g for TYAC

Absence of *E.coli* and *Salmonella* Spp.

Products meant for Inhalation<sup>2</sup>:

NMT 10<sup>2</sup> CFU/g for TAMC

NMT 10<sup>1</sup> CFU/g for TYAC

Absence of *E.coli* and *Salmonella* Spp.

<sup>1</sup>Recommendations are adopted from the 'Guidance for State Medical Cannabis Testing Programs' which is published by the Association of Public Health Laboratories (May 2016).

<sup>2</sup>Recommendations are adopted from Section 111 of the United States Pharmacopeia.

**Water Activity Recommended Limits:**

Water activity levels below 0.65 will aid in the prevention of microbial growth.

This recommendation is adopted from the 'Guidance for State Medical Cannabis Testing Programs' which is published by the Association of Public Health Laboratories (May 2016).

