



BSCG CERTIFIED CBD - BATCH CERTIFICATION

REPORTING ADDRESS:

FourFive CBD  
Fountain Court, 2 Victoria Square  
St Albans, Hertfordshire  
United Kingdom, AL1 3TF

REPORT DATE: June 18, 2020  
RECEIVE DATE: May 18, 2020  
BRAND NAME: Four Five CBD  
PRODUCT NAME: pro cbd oil with Vitamin D3 (Peppermint Flavour)  
BATCH #: FF15  
LAB ID #: 20E0235 / 298356 / 2005069  
PRODUCT TYPE: Finished Product

CANNABINOID PROFILE TESTING

METHOD: Quantitative Analysis of Cannabinoids by High Performance Liquid Chromatography with UltraViolet Detector (HPLC-UV) in Accordance with ISO/IEC 17025:2017 Validated Standard Operating Procedure.

Density of Product (1.0 g/ml - water, 0.925 g/ml - oil, 0.945 g/ml - MCT oil) 0.945  
Serving Size on Package (ml) 0.5  
Package Size (ml) 30  
Maximum Servings Per Day (ml) 2.5

Table with 8 columns: Analyte, mg/kg, RL, mg/ml, mg/serving, mg/package, %, Pass/Fail. Rows include Cannabidiol (CBD), Cannabidiolic Acid (CBDA), Cannabigerol (CBG), Cannabinol (CBN), Delta 9-Tetrahydrocannabinol (D9-THC), Delta 8-Tetrahydrocannabinol (D8-THC), Cannabichromene (CBC), Tetrahydrocannabinolic acid (THCA), Total Cannabinoids, Max THC (THC + 0.877\*THCA), Max CBD (CBD + 0.877\*CBDA), and Other Cannabinoids.

Notes:  
RL - Reporting Limit  
\* Zero indicates the analyte was not detected subject to the RL  
Max THC and Max CBD are calculated values based on the weight loss of the acid group assuming complete decarboxylation of the acid to the neutral form  
The sample is watery in composition with a minty odor.  
Max CBD should be within 95-150% of claim for product.  
Max THC must be <0.30% to Pass.  
For products made in the UK Max THC must be less than 1 mg/package.  
Products with THC free claims may not have any measurable amount of Max THC present.

CONTAMINANTS - SOLVENTS

METHOD: Residual Solvents by Head Space Gas Chromatography Flame Ionization Detection Mass Spectrometry (HS GC FID/MS) in Accordance with ISO/IEC 17025:2017 Validated Standard Operating Procedure.

RESULTS:

Table with 6 columns: Solvent, Category, Result, RL (ppm), Action Level (ppm), Pass/Fail. Rows list various solvents like 1,2-Dichloroethane, Benzene, Chloroform, Ethylene oxide, Methylene chloride, Trichloroethene, Acetone, Acetonitrile, Diethyl ether, Ethanol, Ethyl acetate, Heptane, Hexane, Isopropanol, Methanol, Pentane, Toluene, and Total xylenes.

Notes:  
ND - Not Detected  
RL - Reporting Limit  
California Bureau of Cannabis Control Emergency Regulation Text Solvent List and Action Level Noted above, USP <467> Residual Solvents limits also considered  
Pass/Fail based on Action Level noted, USP <467> limits, and/or product specifications as appropriate.  
According to USP <467> Ethanol is a Class 3 solvent with low toxic potential and a suggested limit of 5,000 ppm with higher amounts acceptable with justification.  
Ethanol is used as a carrier for peppermint and as a solvent for cannabinoid extraction, an acceptable level of 10,000 ppm has been set for ethanol in this product.  
Product conforms with EU legislations and amendments: (EC) No 1881/2006 of 19 December 2006 setting maximum levels for certain contaminants in foodstuffs, including ethanol.



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### CONTAMINANTS - PESTICIDES

#### METHOD:

USP <561> with EPA list included in Accordance with ISO/IEC 17025:2017 Validated Standard Operating Procedure.  
 Sample meets European Pharmacopeial Pesticides Residual limits for all compounds. No Quintozene residues detected.

#### RESULTS (Pass/Fail based on Limit):

| Compound  | Limit (PPM) | Result |
|---|-------------|--------|
| Acephate  | 0.1         | Pass   |
| Alachlor  | 0.05        | Pass   |
| Aldrin and dieldrin   | 0.05        | Pass   |
| Azinphos-ethyl  | 0.1         | Pass   |
| Azinphos-methyl   | 1           | Pass   |
| Bromine, inorganic  | 50          | Pass   |
| Bromophos-ethyl   | 0.05        | Pass   |
| Bromophos-methyl  | 0.05        | Pass   |
| Bromopropylate  | 3           | Pass   |
| Chlordane   | 0.05        | Pass   |
| Chlorfenvinphos   | 0.5         | Pass   |
| Chlorpyrifos-ethyl  | 0.2         | Pass   |
| Chlorpyrifos-methyl   | 0.1         | Pass   |
| Chlorthal-dimethyl  | 0.01        | Pass   |
| Cyfluthrin (sum of)   | 0.1         | Pass   |
| gamma-Cyhalothrin   | 1           | Pass   |
| Cypermethrin  | 1           | Pass   |
| DDT (sum of o,p'-DDE, p,p'-DDE, o,p'-DDT, p,p'-DDT, o,p'-DDD, and p,p'-DDD) | 1           | Pass   |
| Deltamethrin  | 0.5         | Pass   |
| Diazinon  | 0.5         | Pass   |
| Dichlofluanid   | 0.1         | Pass   |
| Dichlorvos  | 1           | Pass   |
| Dicofol   | 0.5         | Pass   |
| Dimethoate and omethoate  | 0.1         | Pass   |
| Dithiocarbamate (as CS2)  | 2           | Pass   |
| Endosulfan (includes endosulfan I, II, sulfate)                             | 3           | Pass   |
| Endrin  | 0.05        | Pass   |
| Ethion  | 2           | Pass   |
| Etrimphos   | 0.05        | Pass   |
| Fenchlorphos (sum of fenchlorophos and fenchlorophos-oxon)                  | 0.1         | Pass   |
| Fenitrothion  | 0.1         | Pass   |
| Fenprothrin   | 0.03        | Pass   |
| Fensulfothion   | 0.05        | Pass   |
| Fenthion  | 0.05        | Pass   |
| Fenvalerate   | 1.5         | Pass   |
| Flucytrinate  | 0.05        | Pass   |

| Compound  | Limit (PPM) | Result |
|---|-------------|--------|
| t-Fluvalinate   | 0.05        | Pass   |
| Fonofos   | 0.05        | Pass   |
| Heptachlor  | 0.05        | Pass   |
| Heptachlor Epoxide  | 0.05        | Pass   |
| Hexachlorobenzene   | 0.1         | Pass   |
| Hexachlorocyclohexane                                       | 0.3         | Pass   |
| Lindane   | 0.6         | Pass   |
| Malathion and malaoxon                                      | 1           | Pass   |
| Mecarban  | 0.05        | Pass   |
| Methacriphos  | 0.05        | Pass   |
| Methamidophos   | 0.05        | Pass   |
| Methidathion  | 0.2         | Pass   |
| Methoxychlor  | 0.05        | Pass   |
| Mirex   | 0.01        | Pass   |
| Monocrotophos   | 0.1         | Pass   |
| Parathion-ethyl and Paraoxon-ethyl                          | 0.5         | Pass   |
| Parathion-methyl and Paraoxon-methyl                        | 0.2         | Pass   |
| Pencimethalin   | 0.1         | Pass   |
| Pentachloranisol  | 0.01        | Pass   |
| Permethrin and isomers                                      | 1           | Pass   |
| Phosalone   | 0.1         | Pass   |
| Phosmet   | 0.05        | Pass   |
| Piperonyl butoxide  | 3           | Pass   |
| Pirimiphos-ethyl  | 0.05        | Pass   |
| Pirimiphos-methyl   | 4           | Pass   |
| Procymidone   | 0.1         | Pass   |
| Profenophos   | 0.1         | Pass   |
| Prothiophos   | 0.05        | Pass   |
| Pyrethrins  | 3           | Pass   |
| Quinalphos  | 0.05        | Pass   |
| Quintozene (PCNB) (includes alpha-BHC, beta-BHC, delta-BHC) | 1           | Pass   |
| S-421   | 0.02        | Pass   |
| Tecnazene   | 0.05        | Pass   |
| Tetradifon  | 0.3         | Pass   |
| Vinclozolin   | 0.4         | Pass   |

### CONTAMINANTS - MICROBIOLOGICAL AGENTS

METHOD: USP <2021> , USP <2022>, AOAC <991.14> in Accordance with ISO/IEC 17025:2017 Validated Standard Operating Procedure.

#### RESULTS (cfu/g, ND, or Absent/Present):

#### LIMITS - Finished Products/Ingredients, Botanical Extract

| Test                   | Result    | USP                 | ANSI 173                         | AHPA                | CBCC |
|------------------------|-----------|---------------------|----------------------------------|---------------------|------|
| Total Plate Count      | <10       | 1 x 10 <sup>4</sup> | 1 x 10 <sup>4</sup>              | 1 x 10 <sup>4</sup> | N/A  |
| Yeast and Mold         | <10       | 1 x 10 <sup>3</sup> | 1 x 10 <sup>3</sup>              | 1 x 10 <sup>3</sup> | N/A  |
| Total Coliforms        | <10       | N/A                 | 1 x 10 <sup>2</sup> <sup>a</sup> | 1 x 10 <sup>2</sup> | N/A  |
| E. Coli                | ND        | Absent              | ND                               | ND                  | ND   |
| Salmonella species     | ND        | Absent              | ND                               | ND                  | ND   |
| Staphylococcus aureus  | ND        | N/A                 | ND                               | N/A                 | N/A  |
| Pseudomonas aeruginosa | ND        | N/A                 | N/A                              | N/A                 | N/A  |
|                        | Pass/Fail | Pass                | Pass                             | Pass                | Pass |

#### Notes:

ND - Not Detected

N/A - Not Applicable

CBCC - California Bureau of Cannabis Control (CBCC) Emergency Regulation Text

USP 40-NF 35 <2023> - Microbiological Attributes of Nonsterile Nutritional and Dietary Supplements - May 1, 2017

ANSI 173 - 2013 ( a - ANSI 173 limits reference enterbacteriaceae as opposed to total coliforms)

AHPA Guidance Policies - Rev. 07/03/17



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## CONTAMINANTS - HEAVY METALS

**METHOD:** USP <233> Quantitative Analysis of Heavy Metals by Inductively Coupled Plasma Mass Spectrometry (ICP-MS) for Arsenic, Cadmium, Lead, Mercury, Chromium.

**RESULTS (µg/day):**

| METAL    | RESULT    | ACCEPTABLE LEVELS: (µg/day) |              |               |                 |      |
|----------|-----------|-----------------------------|--------------|---------------|-----------------|------|
|          |           | ICH Q3D                     | USP          | Health Canada | ANSI 173        | AHPA |
| Arsenic  | 0.003     | 15                          | 15           | 10            | 10              | 10   |
| Cadmium  | 0.005     | 5                           | 5            | 6             | 4.1             | 4.1  |
| Mercury  | 0.003     | 30                          | 15 (2 as Hg) | 20            | 2               | 2    |
| Lead     | 0.028     | 5                           | 5            | 10            | 10              | 6    |
| Chromium | 0.090     | 11000                       | N/A          | N/A           | 20 <sup>a</sup> | N/A  |
|          | Pass/Fail | Pass                        | Pass         | Pass          | Pass            | Pass |

**Notes:**  
ICH Q3D - Guideline for Elemental Impurities - September 2015  
USP 40-NF 35 <232> - Elemental Contaminants in Dietary Supplements - May 1, 2017  
Quality of Natural Health Products Guide - Natural and Non-prescription Health Products Directorate - Health Canada - May 1, 2015  
ANSI 173 - 2013 ( <sup>a</sup> - ANSI 173 limits reference chromium (VI) as opposed to total chromium)  
AHPA Guidance Policies - Rev. 07/03/17

## BANNED SUBSTANCE TESTING

**METHOD:** Samples of the item were extracted and analyzed according to in-house methods for nutritional supplements by qualitative instrumental screen using ultra-high-performance liquid chromatography / high-resolution mass spectrometry (UHPLC/HRMS) in Accordance with ISO/IEC 17025:2017 Validated Standard Operating Procedure. Method detection levels, which vary based on compound and matrix analyzed, are estimated to be in the 2-500 ng/g range for most compounds in most items.

**TESTING MENU:** The testing menu covers 496 compounds including WADA Prohibited Substances and other prescription, over-the-counter, and illicit drugs not banned in sport. Details are available at <https://www.bscg.org/certified-drug-free-testing-menu-wada-prohibited-list-and-more/>.

**RESULTS:** No compounds from the testing menu were detected in the item.

This batch has been certified in the BSCG Certified CBD program. Please contact [info@bscg.org](mailto:info@bscg.org) with any concerns or questions.

Sincerely,  
  
Oliver Catlin  
President

*Disclaimer: Cannabinoids are prohibited substances in sport with the exception of Cannabidiol (CBD) under World Anti-Doping Agency Prohibited List language. Results apply only to the sample(s) tested. BSCG makes no claims or representations about the item(s) and does not endorse, make statements about the efficacy or safety, or make any other assurances regarding the item(s) including as to the absence of banned substances in sport or any other analytes not included in testing.*