



To whom it may concern regarding CBD Living Water,

CBD Living's process to achieve a clear, odorless and tasteless 10mg CBD Water product has taken 5 years of Research and Development by CBD Living's scientist in the onsite laboratory. Due to utilization of Nano Technology, the testing of the CBD within the water can currently only be tested using the *BY INPUT* process. This method is currently used throughout the dietary supplement industry. We have put together a better understanding of our technology and testing in the outline below.

CBD Living has developed a proprietary process; where Cannabinoid (CBD) (a non-water soluble ingredient) becomes water soluble through an emulsion formulation technique and is further processed using superior technology in order to reduce the particle size of the Cannabinoids themselves. This particle size reduction of the Cannabinoids will be in the form of nanodroplets ranging from 100-300 nanometers. The importance of processing Cannabinoids into a nanodroplet state within our water is to provide Enhanced Bioavailability. This process also allows us to achieve a clear, odorless and tasteless product, just as water should be.

A brief summary of CBD Living's proprietary process is; (Step 1) receiving CO₂ extracted CBD and performing a quality review and testing, (Step 2) once testing meets our standards, we create a concentrated (oil in water) emulsion and reduce the Cannabinoid particle size to 100-300 nanometers. Next, we perform our quality review and testing and (Step 3) finally once testing meets our standards, we add it to the mixing tanks at the water plant to be filled and packaged.

Cannabinoid Analysis is normally done by HPLC coupled with mass spec and/or UV, but first the Cannabinoid itself must be extracted from the Finished Product into an organic solvent (example is Ethanol). While this step is straightforward for Cannabinoids in oil, it is not necessarily so for Cannabinoids in water as explained below.

The current 3rd Party Laboratories can test our (Step 2) concentrated emulsion, which meets the specified % of CBD. However, the same Laboratories are unable to successfully reverse the nano- emulsion process in our CBD Living Water in order to extract the 10mg of CBD. This extraction is most challenging especially since the Cannabinoid nano-droplets are present at 0.002% in a 16.9oz bottle, compared to a factor of 1500X in our concentrated emulsion. Therefore, the HPLC apparatus is unable to detect any Cannabinoids in the final water beverage.

CBD Living has provisionally concluded the Finished Drinking Water's Cannabinoid analysis testing can only be *BY INPUT*. We define the term *BY INPUT*; Presence of **10mg of CBD in a 16.9ozBottle of water** is verified by; the proprietary process mentioned earlier where (Step 2-Nano Emulsion) is formulated to have a specific percentage of CBD and only once it has been tested and verified we can confidently calculate how much we would need of the Nano Emulsion per water bottle in order to provide 10mg of CBD. Furthermore, a quality review of the water facilities' Batch Records is done to verify the amount of Nano Emulsion per the quantity of water bottles in each order. This has prompted us to conclude; due to the Cannabinoid's nano particle size and low percentage (%) per 16.9oz bottle, making it impossible to be detected through the current analytical testing methods.



ABC TESTING, INC

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CBD Living

Attn:

Tel#

Fax#

Sample Name: CBD Concentrate

Item#

Lot/Batch# 0805191

Lab# 274395

PO#

Analysis:
CBD (HPLC)

Method:
AHP

Result:
19.2 mg/g

Spec:
19 mg/g

Analyzed by:



Chemist

Approved by:



Wendi Wang, PhD, President



Cannabis Analytical
Science Program