

Test Report

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Test Report No.: FR001224_S19045136

Date: 21st November 2019

Customer:	CiiTECH
Analysis:	Suite of 7 cannabinoids
Matrix:	CBD capsules
Received:	21 st of October 2019
Analysed	5 th to 20 th of November 2019

1. BACKGROUND

This report describes the analytical testing of a CBD sample product.

The term "CBD" is an acronym for cannabidiol, which is one of several cannabinoids, or chemical compounds, that are found in cannabis and hemp plants.

The sample was analysed for the concentrations of 7 cannabinoids:

- **CBC**, Cannabichromene
- **CBD**, Cannabidiol
- **CBDA**, Cannabidiolic acid
- **CBG**, Cannabigerol
- **CBN**, Cannabinol
- **THC**, Tetrahydrocannabinol
- **THCA**, Tetrahydrocannabinolic acid

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2. SAMPLE DESCRIPTION

The sample was received at the laboratory in satisfactory condition and stored at ambient temperature prior to analysis.

The sample was received in the manufacturers (Provacan) packaging with all seals intact.

A unique identifying number was assigned to the sample using the Fera laboratory information management system. The relevant sample details are shown in the table below.

Sample information				
Fera reference	Customer reference	Description	Batch/LOT code	Best before
S19-045136	106	Provacan CBD Capsules 720 mg	Cii-24-001	22/12/2020

3. SAMPLING AND ANALYSIS

3.1 Cannabinoids

Cannabidiol (CBD) - The sample was extracted into solvent and diluted before CBD was determined using LC-UV. Accuracy of the method was assessed by analysing in-house reference material with known concentrations of CBD alongside the sample.

Cannabichromene (CBC), cannabidiolic acid (CBD-A), cannabigerol (CBG), cannabinol (CBN) tetrahydrocannabinol (THC) and tetrahydrocannabinolic acid (THC-A) - The sample was extracted into solvent and diluted before the cannabinoids were determined using LC-MS/MS. Accuracy of the method was assessed by analysing over spiked blank material alongside the sample. This method does not fall under the scope of our ISO17025 accreditation.

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4. RESULTS

4.1 Cannabidiol

Sample identification			CBD concentration	
Fera reference	Customer reference	Sample identification	mg/kg	%
S19-045136	106	CBD Capsules 720 mg	34600	3.5

Limits of detection:

The limit of detection for CBD is 1 mg/kg or 0.0001%.

4.2 Cannabichromene, cannabidiolic acid, cannabigerol, cannabinol, tetrahydrocannabinol and tetrahydrocannabinolic acid

Sample identification			Cannabinoid concentrations (mg/kg)					
Fera reference	Customer reference	Sample identification	CBC	CBD A	CBG	CBN	THC	THC A
S19-045136	106	CBD Capsules 720 mg	1009	3786	359	238	720	14

ND = Not Detected

Limits of detection:

CBC: 1 mg/kg, CBDA: 1 mg/kg, CBG: 1 mg/kg, CBN: 1 mg/kg, THC: 1 mg/kg, THCA: 1 mg/kg

Issuing Officer:	Mark Harrison, Analytical chemist	Date:	21/11/19
Countersigning Manager:	Michael Dickinson, Senior analytical chemist	Date:	21/11/19

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