

Test Report

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Test Report No.: FR001224_S19045139

Date: 21st November 2019

Customer:	CiiTECH
Analysis:	Suite of 7 cannabinoids
Matrix:	CBD Paste 2500 mg
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
S19-045139	105	Provacan CBD Paste 2500 mg (5%)	PA50019196A	01/2021

3. SAMPLING AND ANALYSIS

3.1 Cannabinoids

Cannabidiol (CBD) - The samples were 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 samples.

Cannabichromene (CBC), cannabidiolic acid (CBD-A), cannabigerol (CBG), cannabinol (CBN) tetrahydrocannabinol (THC) and tetrahydrocannabinolic acid (THC-A) - The samples were 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 samples. 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	%
S19-045139	105	CBD Paste 2500 mg (5%)	490700	49

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
S19-045139	105	CBD Paste 2500 mg (5%)	194	4169	2483	256	1427	93

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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