

# Test Report

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Test Report No.: FR001224\_S19045138

Date: 21<sup>st</sup> November 2019

Customer:	CiiTECH
Analysis:	Suite of 7 cannabinoids
Matrix:	CBD Blemish Control Gel
Received:	21 <sup>st</sup> of October 2019
Analysed	5 <sup>th</sup> to 14 <sup>th</sup> 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
S19-045138	136	Provacan CBD Blemish Control Gel	71826-4	Jun 2021

## 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	%
S19-045138	136	CBD Blemish Control Gel	5600	0.56

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
S19-045138	136	CBD Blemish Control Gel	ND	ND	5.5	ND	5.8	ND

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

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

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