

Test Report: Commercial in Confidence

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Test Report No.: FR002212_S20017797

Date: 19th May 2020

Customer:	Elixinol BV
Analysis 1:	Suite of cannabinoids by LC-MS/MS
Analysis 2:	Cannabidiol (CBD) by HPLC-UV
Matrix:	CBD capsules_Immune TA2004 07
Received:	12 th of May 2020
Analysed	13 th to 15 th of May 2020

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 14 cannabinoids:

- **CBC**, Canabichromene
- **CBC-A**, Cannabichromenic acid
- **CBD**, Cannabidiol
- **CBD-A**, Cannabidiolic acid
- **CBDV**, Cannabidivarin
- **CBDV-A**, Cannabidivarinic acid
- **CBG**, Cannabigerol
- **CBG-A**, Cannabigerolic acid
- **CBN**, Cannabinol
- **Δ8-THC**, Delta-8-Tetrahydrocannabinol
- **Δ9-THC**, Delta-9-Tetrahydrocannabinol
- **THC-A**, Tetrahydrocannabinolic acid
- **THCV**, Tetrahydrocannabivarin
- **THCV-A**, Tetrahydrocannabivarinic 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 packaging consisting of a glass bottle with a screw cap within a cardboard outer box.

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
S20-017797	Immune Booster	Immune Booster, CBD capsules. 150 mg CBD. +Vitamin C, +Vitamin D, +Zinc. 30 capsules.	TA2004 07	04.2022

3. SAMPLING AND ANALYSIS

3.1 Cannabinol (CBN), delta-9-tetrahydrocannabinol (Δ 9-THC), delta-8-tetrahydrocannabinol (Δ 8-THC), tetrahydrocannabinolic acid (THC-A), tetrahydrocannabivarin (THCV), canabichromene (CBC), cannabichromenic acid (CBC-A), cannabidiolic acid (CBD-A), cannabidivarin (CBDV), cannabidivarinic acid (CBDV-A), cannabigerol (CBG), cannabigerolic acid (CBG-A) and tetrahydrocannabivarinic acid (THCV-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 samples.

3.2 Cannabidiol (CBD)

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

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4. RESULTS

Sample identification: Immune Booster TA2004-07

Fera LIMS: S20-017797

Weight of capsule content: 694 mg

Total pack size: 30 capsules

Analyte	% w/w	Mass of analyte per capsule content (mg)	Mass of analyte per pack of 30 capsules (mg)
CBC , Canabichromene	<0.01	<0.07	<2.1
CBC-A , Cannabichromenic acid	<0.01	<0.07	<2.1
CBD , Cannabidiol	0.64	4.4	133
CBD-A , Cannabidiolic acid	<0.01	<0.07	<2.1
CBDV , Cannabidivarin	<0.01	<0.07	<2.1
CBDV-A , Cannabidivarinic acid	<0.01	<0.07	<2.1
CBG , Cannabigerol	<0.01	<0.07	<2.1
CBG-A , Cannabigerolic acid	<0.01	<0.07	<2.1
CBN , Cannabinol	<0.002	<0.014	<0.42
Δ8-THC , Delta-8-Tetrahydrocannabinol	<0.002	<0.014	<0.42
Δ9-THC , Delta-9-Tetrahydrocannabinol	<0.002	<0.014	<0.42
THC-A , Tetrahydrocannabinolic acid	<0.002	<0.014	<0.42
THCV , Tetrahydrocannabivarin	<0.01	<0.07	<2.1
THCV-A , Tetrahydrocannabivarinic acid	<0.002	<0.014	<0.42
Total THC [Δ9-THC + (THC-A x 0.887)]	<0.004	<0.028	<0.83
Total CBD [CBD + (CBD-A x 0.887)]	0.64	4.4	133

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Issuing Officer:	Mark Harrison, Analytical chemist	Date:	19/05/20
Countersigning Manager:	Rosario Romero, Senior analytical chemist Michael Dickinson, Senior analytical chemist	Date:	19/05/20

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