

Test Report

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United Kingdom



Test Report No.: FR001224_S19020919

Date: 10th June 2019

Customer:	Vita Nova
Analysis:	Suite of 7 cannabinoids and trace elements
Matrix:	Plain Tincture
Received:	20 th May 2019
Analysed	30 th May to 7 th June 2019

1. BACKGROUND

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

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 samples were analysed for the concentrations of 7 cannabinoids:

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

Current Home Office guidance states that for CBD products to be legal in the UK the hemp plant must produce less than 0.2% THC, and there should be less than 1mg THC and CBN in any subsequent container of CBD oil or product that is sold.

CBD products and CBD oil are legal products in the UK if claims are not made regarding medical benefits¹.

Test Report

2. SAMPLE DESCRIPTION

The sample was received at the laboratory in satisfactory condition and stored dark at room temperature before analysis.

The sample was in a 5 mL glass bottle with a pipette installed lid.

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	Sample identification	Sample packaging	Batch/LOT code	Best before
S19-020919	CBD Oil	5 mL glass bottle with a pipette installed lid	n/a	n/a

3. SAMPLING AND ANALYSIS

3.1 Cannabinoids

The sample was diluted before the cannabinoids were analysed using LC-MS/MS and HPLC-UV. Accuracy of the method was assessed using a spiked sample.

The sample was screened for cannabinoids; cannabichromene, cannabidiol, cannabidiolic acid, cannabigerol, cannabinol, tetrahydrocannabinol and tetrahydrocannabinolic acid.

Test Report

4. RESULTS

4.1 Cannabinols

Cannabidiol	Abbreviation	Result (mg/kg)
Cannabichromene	CBC	Not detected
Cannabidiol	CBD	222,000 (22.2%)
Cannabidiolic acid	CBDA	180 (0.02%)
Cannabigerol	CBG	158 (0.02%)
Cannabinol	CBN	Not detected
Tetrahydrocannabinol	THC	Not detected
Tetrahydrocannabinolic acid	THCA	Not detected

Limits of detection:

CBC: 160 mg/kg, CBD: 5 mg/kg , CBDA: 1 mg/kg, CBG: 25 mg/kg, CBN: 25 mg/kg, THC: 30 mg/kg
THCA: 5 mg/kg

Test Report

5. REFERENCES

1. The Misuse of Drugs Regulations 2001

<http://www.legislation.gov.uk/uksi/2001/3998/regulation/2/made>

Issuing Officer:	Mark Harrison, Analytical chemist	Date:	10/06/19
Countersigning Manager:	Michael Dickinson, Senior analytical chemist	Date:	10/06/19

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