

Test Report: Commercial in Confidence

Fera Science Ltd,
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1642

Test Report No.: FR001224_S20030418b

Date: 19th June 2020

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|-----------|--|
| Customer: | MG Group Limited |
| Analysis: | Suite of 7 cannabinoids by HPLC-UV |
| Matrix: | CBD oil |
| Received: | 4 th of June 2020 |
| Analysed | 8 th to 12 th of June 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 7 cannabinoids:

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

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 a 10 mL amber glass vial with black plastic screw cap. A label with the customers identification letter was attached to the side of the vial.

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.

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| Sample information | | | | |
|--------------------|--|-----------------|----------------|-------------|
| Fera reference | Sample identification | Sample type | Batch/LOT code | Best before |
| S20-030418 | CBD isolate tincture 2000mg. B/N 2000/01 | CBD isolate oil | B/N 2000/01 | N/A |

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-UV. Accuracy of the method was assessed by overspiking blank oil with a known concentration of each cannabinoid. **This method does not fall under the scope of our ISO17025 accreditation.**

4. RESULTS

4.1 Cannabidiol

| Sample information | | |
|--------------------|--|---------|
| Fera reference | Customer identification | CBD (%) |
| S20-030418 | CBD isolate tincture 2000mg. B/N 2000/01 | 20.9 |

Expanded relative measurement uncertainty (95% confidence) for CBD is 12.8%.

4.2 Cannabichromene (CBC), cannabidiolic acid (CBD-A), cannabigerol (CBG), cannabinol (CBN), Tetrahydrocannabinol (THC) and tetrahydrocannabinolic acid (THC-A)

| Sample identification | | Other cannabinoid concentrations (%) | | | | | |
|-----------------------|--|--------------------------------------|--------|--------|--------|--------|--------|
| Fera reference | Sample identification | CBC | CBDA | CBG | CBN | THC | THCA |
| S20-030418 | CBD isolate tincture 2000mg. B/N 2000/01 | 0.003 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |

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|--------------------------------|---|--------------|----------|
| Issuing Officer: | Mark Harrison, Analytical chemist | Date: | 12/06/20 |
| Countersigning Manager: | Rosario Romero, Senior analytical chemist | Date: | 16/06/20 |

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