## Chemical Content Analysis

Date: 21-10-2019
Client: Vitality
Product: 1200mg Oral Drops Natural
Volume: 30 mL
Batch No: OT020719HN
Lab ID: CBD0315

## Visual Inspection:

Greenish Yellow liquid, translucent.

## Method Summary:

Approximately 0.2 g of sample was measured in a pipette and extracted in IPA to provide a sample at approximately $32 \mathrm{mg} / \mathrm{ml}$. This was diluted further in Methanol. CBD content was analysed on an Agilent HPLC fitted with a DAD detector. Content on HPLC was analysed against a standard calibration of CBD, CBN and THC, supplied by Restek, as well as CBDA and THCA supplied by Sigma-Aldrich. The results are presented in Table 1 and Figure 1 below.

| Compound | CAS Number | Concentration (mg/ml) | LoQ ( $\mu \mathrm{g} / \mathrm{ml})$ |
| :---: | :---: | :---: | :---: |
| Cannabidiol | $13956-291$ | 38.89 | 0.1 |
| Cannabinol | $521-35-7$ | BQL | 0.1 |
| Delta-9- Tetrahydrocannabinol | $1972-08-3$ | BQL | 0.1 |
| Cannabidiolic Acid | $1244-58-2$ | 0.21 | 0.1 |
| Delta-9-Tetrahydrocannabinolic Acid | $23978-85-0$ | BQL | 0.2 |

BQL, Below Quantitation Limit.

## \% Content of Sample



CBD: $3.889 \% \mathrm{w} / \mathrm{v}$ CBN: BQL
THC: BQL
CBDA: 0.021\% w/v
THCA: BQL
Other Contents: $96.090 \%$ w/v

## Comments:

1200 mg of CBD in 30 ml is equivalent to $40 \mathrm{mg} / \mathrm{ml}$
CBD- Cannabidiol
CBDA- Cannabidiolic Acid
CBN- Cannabinol. The legal limit for this compound is 1 mg per container.
THC- delta-9-Tetrahydrocannabinol.
THCA- delta-9-Tetrahydrocannabinolic Acid. The legal limit for both THC and THCA in this mixture is 1 mg per container The sample passes all legal limits for CBN, THC and THCA.

CBD CBN - THC - CBDA ■THCA ■ Other Contents
Figure 1. Pie chart of the analysis result.

Figure 2. Chromatogram of the analysis

Approved By:
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