

# **Chemical Content Analysis**

#### Date: 14-06-2019

#### Client: Vitality

Product: Vitality CBD Full Spectrum Oral Spray Berry 300mg

Volume: 30 mL

Batch No: TH020519MB

Lab ID: CBD0228

### **Visual Inspection:**

Clear liquid

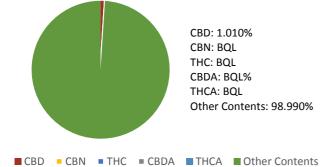
### **Method Summary:**

1ml of sample was measured in a pipette and extracted in Isopropyl Alcohol to provide a sample at 0.4mg/ml. This was then 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 (µg/ml)
Cannabidiol	13956-291	9.54	0.1
Cannabinol	521-35-7	BQL	0.1
Delta-9- Tetrahydrocannabinol	1972-08-3	BQL	0.1
Cannabidiolic Acid	1244-58-2	BQL	0.1
Delta-9-Tetrahydrocannabinolic Acid	23978-85-0	BQL	0.2

### BQL, Below Quantitation Limit.

# % Content of Sample



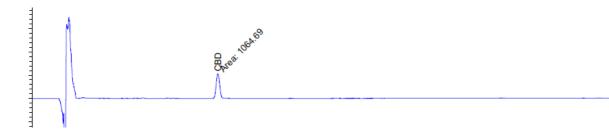
## Comments:

300mg of CBD in 30ml is equivalent to 10mg/ml

Acceptance Criteria: ±5% of target concentration CBD total, including CBDA, below legal limit of CBN, THC and THCA. CBD- Cannabidiol CBDA- Cannabidiolic Acid CBN- Cannabinol. The legal limit for this compound is 1mg per container. THC- delta-9-Tetrahydrocannabinol. THCA- delta-9-Tetrahydrocannabinolic Acid. The legal limit for both THC and THCA this compound is 1mg per container

The sample passes all acceptance criteria for CBD, CBN and THC.

### Figure 1. Pie chart of the analysis result.



## Figure 2. Chromatogram of the analysis

Analysis By: Lawrence Theobald

### **Approved By:**

Mark Portsmouth, Analytical Chemistry Consultant

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