

# **Chemical Content Analysis**

**Date:** 21-10-2019

**Client:** Vitality

**Product:** 300mg Oral Spray Berry

Volume: 30 mL

Batch No: TH030919MB

Lab ID: CBD0300

### **Visual Inspection:**

Pinkish pale liquid, translucent.

### **Method Summary:**

Approximately 0.2g of sample was measured in a pipette and extracted in IPA to provide a sample at approximately 8mg/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 (μg/ml)
Cannabidiol	13956-291	9.91	0.1
Cannabinol	521-35-7	BQL	0.1
Delta-9- Tetrahydrocannabinol	1972-08-3	BQL	0.1
Cannabidiolic Acid	1244-58-2	0.14	0.1
Delta-9-Tetrahydrocannabinolic Acid	23978-85-0	BQL	0.2

**BQL**, Below Quantitation Limit.

## % Content of Sample

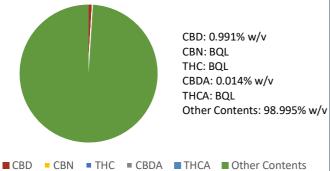


Figure 1. Pie chart of the analysis result.

### **Comments:**

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

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 in this mixture is 1 mg per container The sample passes all legal limits for CBN, THC and THCA.

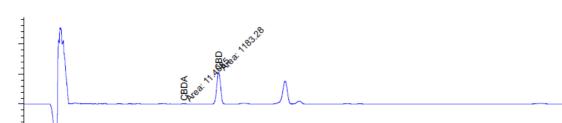


Figure 2. Chromatogram of the analysis

# **Analysis By:**

Lawrence Theobald

### **Approved By:**

Mark Portsmouth, Analytical Chemistry Consultant

**DATE: 21-10-19**