

## Chemical Content Analysis

Date: 23-10-2019

Client: Vitality

Product: Vitality CBD Skin Cream 300mg

Volume: 100 mL

Batch No: 71898

Lab ID: CBD0324

### Visual Inspection:

White Cream

### Method Summary:

1ml of sample was measured in a pipette and extracted in Isopropyl Alcohol to provide a sample at 0.12mg/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	2.80	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

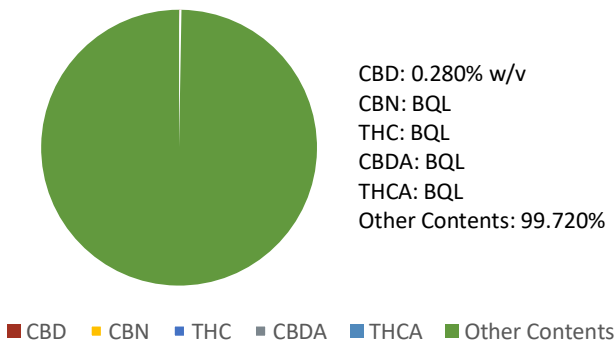


Figure 1. Pie chart of the analysis result.

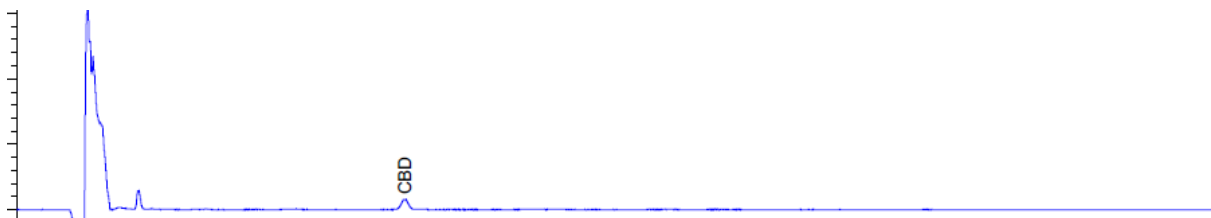


Figure 2. Chromatogram of the analysis

### Comments:

300mg of CBD in 100ml is equivalent to 3mg/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 compound is 1mg per container

Analysis By:

Lawrence Theobald

Approved By:

Mark Portsmouth, Analytical Chemistry Consultant

DATE: 23-10-19