

Chemical Content Analysis

Client	Vitality CBD Ltd.
Product	Oral Spray Lemon Flavour 300mg
Volume	30 ml
Batch No.	TH010619MN
Lab ID	CBD0333
Date	07.11.2019
Analysis by	Lawrence Theobald
Approved by	Mark Portsmouth

Method Summary:

0.5mL of sample was dispensed with a pipette and diluted with IPA to give a sample at 1 mg/ml. The sample was then diluted further with Methanol.

The sample was analysed on an Agilent HPLC with a DAD detector. The system was calibrated using standard solutions of eleven Cannabinoids. Cannabinoid concentrations in the sample were determined using the relevant calibration lines.

The results are presented in Table 1 and Figure 1 below.

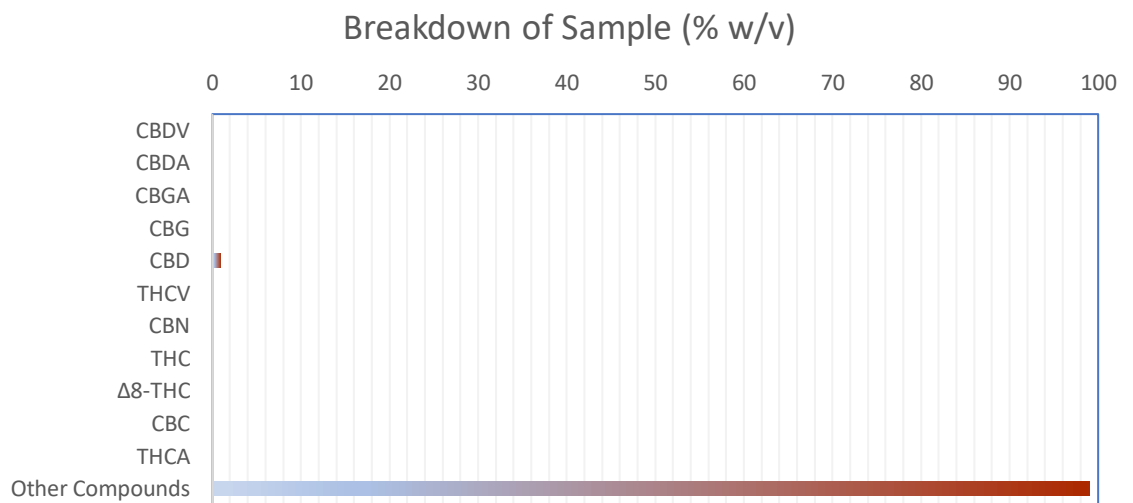
PASSED

Results

Cannabinoid Compound (Abbreviation)	CAS Number	LoQ (µg/mL)	Target Concentration (mg/mL)	Measured Concentration (mg/ml)	PASS/FAIL
Cannabidiol (CBD)	13956-29-1	0.1	10.00	9.58	N/A
Cannabidivarin (CBDV)	24274-48-4	0.1	No Target	BQL	N/A
Cannabidiolic Acid (CBDA)	1244-58-2	0.1	No Target	BQL	N/A
Cannabigerolic Acid (CBGA)	25555-57-1	0.1	No Target	BQL	N/A
Cannabigerol (CBG)	25654-31-3	0.1	No Target	BQL	N/A
Tetrahydrocannabivarin (THCV)	1972-08-3	0.1	No Target	BQL	N/A
Cannabinol (CBN)	521-35-7	0.1	Legal Limit	BQL	PASS
Δ9-Tetrahydrocannabinol (THC)	1972-08-3	0.1	Legal Limit	BQL	PASS
Δ8-Tetrahydrocannabinol (Δ8-THC)	5957-75-5	0.1	Legal Limit	BQL	PASS
Cannabichromene (CBC)	20675-51-8	0.2	No Target	BQL	N/A
Δ9-Tetrahydrocannabinolic Acid (THCA)	23978-85-0	0.2	Legal Limit	BQL	PASS

Table 1- Results. LOQ- Limit of Quantitation. BQL- Below Quantitation Limit

Figure 1- Proportion of sample breakdown



Comments

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

Acceptance Criteria. All prohibited Cannabinoids below legal limits

Limits- CBN- 1mg per container

THC and THCA- 1mg per container combined

Summary- The sample passes all acceptance criteria