LEAF
LABORATOIRE D'ÉTUDES ET D'ANALYSES DES FLUIDES

CERTIFICATE OF ANALYSIS

PRODUCT IDENTIFICATION

CLIENT: WEED INTERNATIONAL
PRODUCT: ORANGE BUD

PHYSICO-CHEMICAL ANALYSIS

GC-FID ANALYSIS :
Preparation of the sample:

Extraction solution: Hexane. The samples are crushed intimately and sieved on 1 mm mesh.
1 sample of 100 mg is weighed and 5 mL of extraction solvent is added. Everything is immersed for 20 minutes in an ultrasonic bath. The supernatant of the sample is injected into the following apparatus.
Equipment: GC-FID Shimadzu

Injection parameters
- ***Mode*: Split**
- ***Split ratio*: 5.0**
- ***Volume injection*: 1µL**
- ***Temperature*: 250°C**

Column parameters
- ***Type:* DB5**
- ***Characteristics:* 60m ; 0.25mm ; 0.50µm**
- ***Mode:* Vitesse constante**
- ***Velocity:* 30.0 cm/sec**
- ***Vector gas:* Hélium**

Oven parameters
- ***Initial temperature: 40°C during 2 min***
- ***Step 1: 7.0 °C/min until 230 °C***
- ***Step 2: 20.0 °C/min until 300 °C***
- ***Final temperature: 300 °C during 15 min***
- ***Total duration*: 47.64 min**

Detector parameters
- ***Type:* FID**
- ***Model:* GC-2010 Plus**
- ***Temperature:* 350°C**
- ***Solvent cut time:* 0min**

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N° SIRET : 818 276 651 00028 – Au capital de 15 000 €

Dosing of cannabidiol (**CBD**) from calibration curve doing with commercial analytical standard of cannabidiol: **1.49 % ± 0.03 %.**

Dosing of Delta-9-tetrahydrocannabinol (THC)* from calibration curve doing with commercial analytical standard of cannabinol (CBN): 0.0743 %± 0.0037 %.

* As described in the literature in *Poortman-van der Meer A. J. et Huizer H. (1999), A contribution to the improvement of accuracy in the quantitation of THC, Forensic Sci. Int., 101, 1-8.*

LOQ (limit of quantification) = **0,0100%.**
LOD (limit of detection) = **0,0025%.**

Report written on: August, 5th 2019
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