



LABORATOIRE D'ÉTUDES ET
D'ANALYSES DES FLUIDES

CERTIFICATE OF ANALYSIS

PRODUCT IDENTIFICATION

PRODUCT: CAMEL

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: 1 μ L
- Temperature: 250°C

Column parameters

- Type: DB5
- Characteristics: 60m ; 0.25mm ; 0.50 μ m
- 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

Dosing of cannabidiol (CBD) from calibration curve doing with commercial analytical standard of cannabidiol: $3.34\% \pm 0.03\%$.

Dosing of Delta-9-tetrahydrocannabinol (THC)* from calibration curve doing with commercial analytical standard of cannabidiol (CBN): $0.1215\% \pm 0.0049\%$.

* 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%.

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