DNA GENSEE

PROVIDE DNA ANALYSIS AND STUDIES:

▲ TO IDENTIFY PLANT SPECIES CONTAINED IN:

▲ Natural products like plant mixtures, honey, etc.

OR

▲ Complex substrates turned into ingredients and cosmetic products, nutraceuticals, pharmaceuticals,

▲ TO TRACE PLANT SPECIES of interest during manufacturing processes,

▲ TO AUTHENTIFY THE ORIGIN OF RAW PLANT MATERIALS.

BASED ON:

▲ A patented innovative bio molecular technology coming from academic research[1] and giving access to the plant's genetic identity,

AND

▲ A technical expertise for sampling, DNA extraction and amplification, new generation sequencing and bioinformatics analyses.

ASSETS:

▲ ROBUSTNESS: we can work with any type of complex substrate even if it contains only DNA traces.

▲ UNIVERSALITY: we can work without prior knowledge of the plants contained in the sample.

▲ RELATIVE QUANTIFICATION: the number of DNA sequences found is usually linked to the plant quantity.

▲ RICHNESS OF ACQUIRED INFORMATION: for taxonomical issues, we are able to obtain phylogenetic information via DNA polymorphism in order to classify unknown plant species.

1 : Patent licence from Joseph Fourier University

ANALYSIS AND STUDIES

PLANT SPECIES DETECTION AND IDENTIFICATION

▲ Identification of plant of interest.

▲ Plant content analysis of a mixture.

▲ Detection of contaminant, prohibited and allergenic plants.

BOTANICAL AND GEOGRAPHICAL ORIGINS CONTROLS

▲ Finding of the plant's origin.

▲ Detection of genetic markers in order to distinguish plant varieties.

SPECIFIC DATA BASES CONSTRUCTION

Types of substrates:

- Raw plant material: fresh or dried plants, powders, plant extracts, etc.,

- Semi-processed and final products (emulsions, oils, creams, different formulations, etc.),

- Solid, semi-liquid, and liquid substrates.

PRACTICAL APPLICATIONS

▲ To control the quality all along the process.

▲ To follow the plant from the field to the final product.

▲ To obtain data to lead toxicological studies.

▲ To help obtain labels.

▲ To give guaranties to clients and regulatory agencies.

▲ To help detect counterfeit items.

▲ To validate the efficacy claims.

USER BENEFITS

▲ Bring knowledge on incoming products and manufactured products.

▲ Be sure to work on the right plant before R&D programs.

▲ Be confident in presence of competition, NGOs, etc.

▲ Be a step ahead thanks to high-tech technology.

▲ Seek credibility to reach a high-standing position.

▲ Show an advantageous image.

▲ Claim ethic values for biodiversity preservation.