GLOBAL GENOMIC SOLUTION
For microbiological identification and characterization

Because you care about CONSUMERS’ HEALTH*

* Parce que pour vous, la santé des consommateurs est essentielle
A unique expertise in Next Generation Sequencing (NGS) applied to microbiology

Mérieux NutriSciences is sharing with you its experts’ unique experience in Next Generation Sequencing technologies (Whole Genome Sequencing, Metagenomics) based on years of research in microbiology and biomolecular solutions.

- **Food, ingredients and industry environmental microbial ecology**: microbiological profile to monitor food safety plans, supply vendor programs, sanitary design...
- **Environmental microbial monitoring**: individual strain differentiation for microbiological contaminant tracking
- **Starter culture monitoring**: identification and quality control of starter cultures
- **Food spoilage**: microbiological identification and food microbiological profile characterization
- **Food shelf life extension**: microbiological profile to validate product formulation and process and maximize product shelf life
- **Microbiota identification**: Next Generation Sequencing for microbiota identification and monitoring (Metagenomic)
- **Microbiology databases**: a Mérieux group commitment for one health approach and a unique access to global microbiology databases from farm to fork
- **Data Management**: a Mérieux group unique software solutions for data treatment, data storage and data sharing/exchange under strict confidentiality rules

Microbiota & NGS Expertise
Continuity of a strong heritage since 1995

- **1995**
  - Microorganisms Identification
  - Sequencing
  - Typing
  - qPCR

- **1999**
  - NGS
  - Biobanking
  - Pre-clinical
  - Gut, skin, oral flora
  - MALDI-TOF

- **2003**
  - Bacterial Ecosystem expertise
  - Fingerprinting

- **2007**
  - Analytical services molecular technologies in complex matrices

- **2012**
  - NGS Industry solutions: Whole Genome Sequencing Metasequencing

- **2016**

- **2017**

Institut Mérieux, established in 1897 by Marcel Mérieux, a student of Louis Pasteur. Its foundation marked the beginning of an incredible bioindustrial journey in the global fight against infectious diseases, with major achievements in the field of vaccination, as well as clinical and industrial diagnosis.

50 years of experience from Silliker, a company acquired by Institut Mérieux in 1996. Its founder, Dr. John H. Silliker, was a renowned scientific figure in the field of food safety in the United States and around the world.

These roots in the field of biology and food science have given Mérieux NutriSciences a unique scientific grounding, making it an undeniable leader and respected member of the public health sector participating to numerous normalisation and scientific groups such as ISO or ILSI.
A complete service for worldwide applications

PROXIMITY SERVICE

Mérieux NutriSciences worldwide network of laboratory allows easy collection of samples (environmental swabs, food products, strains from your internal laboratory…) and transfer to our experts in Food Science Center laboratories.

EXPERT LABORATORIES

Microbiology and biomolecular technologies are one of the main focuses of our Food Science Center expert laboratories based in France, Italy, US and China. The laboratories integrate RNA/DNA extraction technologies, DNA sequencing (Sanger or Next Generation Sequencing (NGS) for strain identification, Whole Genome Sequencing (WGS), Shotgun/Targeted Metagenomic,…), bioinformatic treatment.

Quality standards for sequencing service are fully in line with ISO 17025 standards and expert professional recommendations.

EXPERT SUPPORT

Our expert network from Food Science Center experts laboratories (Food scientists, biomolecular experts, bioinformaticians…) supports your projects and tests from the study design to the choice of specific biomolecular technique adapted to your needs as well as bioinformatic pipeline, databases usage, data storage… Food experts recommendations add value to complex sequencing results for practical application and enhanced food safety and quality.

SAFE AND EASY ACCESS TO YOUR RESULTS

With the specific applications developed by Mérieux NutriSciences, you have access to unique databases to follow your results and compare your strains to targeted databases. Data delivery and reporting can be customized to provide immediate value to your food safety and quality teams. Confidentiality is a permanent concern from project definition to data storage.
Mérieux NutriSciences worldwide network of laboratory allows easy collection of yours samples and transfer to our Food Science Center expert laboratories.