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Eurofins IDmyk : Microbiota characterization

Introduction



Eurofins IDmyk is the **center of excellence** of the Eurofins Pharma Division regarding **detection-identification and typing of micro-organisms** by using **molecular methods** (bacteria, yeasts, molds, algae and viruses)

Eurofins IDmyk has a **strong and long experience** of genomic analyses, of molecular method developments and of micro-organism's taxonomy in order **to adress specific needs for microbiota's analyses**, this in a **GMP** environment.

We can provide unique and efficient molecular tools for stability studies and documentation, for regulatory authorities, for preclinical and clinical studies, etc...



Microbiota Characterization :

Qualitative and quantitative characterization of the micro-organisms involved in the microbiota

Global Microbiota analysis :

Determine **clearly** and **exactly** the micro-organisms composition of the microbiota

- culture based methods / culture independent methods
- meta-genomic and total genome determination

From Operationnal Taxonomic Unit (OTU) to :

- genus level
 - species level (identification)
 - strain level (typing)



Eurofins IDmyk **generate genomic data** (for identification and characterization) and **select molecular markers** in order to set up **molecular detection-identification and quantification methods** (e.g. qPCR) for the different taxonomic levels regarding microbiota's strains:

- OTU
- genus
- species (species level is important for safety inference)
- strain (strain level is important for strain identity and deposit in

international collection, traceability [raw material to finished product], quality control, stability studies, patent claims, etc...)

We have successful experience with multiple species and **strain-level specific qPCR test development** for above needs.



Eurofins IDmyk **uses** and **develop** adequate **molecular methods** for **qualitative** and **quantitative** analysis of micro-organisms involved in the microbiota, down to the strain level.

These are valuable tools to use in Preclinical and Clinical studies



Standardized manufacturing procedures according to **GMPs** requires control of microbiological characteristics, possibly done with our methods:

- **raw material** characterization/identity testing
 - **finished product** characterization/identity testing,
 - **stability studies** regarding qualitative and quantitative characteristics of the microbiota
 - viability,
 - population levels and ratio,
 - genomic characteristics (stability of)
- (In addition to other biological, chemical and physical characteristics)



Should you need **any support** and **further discussion**, please contact :

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