

# Central Laboratory Microbiology

## Central Laboratory Microbiology

Embedded in our global Central Laboratory Services, Eurofins offers extensive scientific and laboratory expertise in bacteriology, virology, mycology, parasitology and molecular diagnostics to support clinical trials. We are committed to providing you with accurate and timely results, knowledgeable and relevant scientific advice and outstanding customer service. With over 25 years of experience in delivering microbiology testing and consultative services, our expert staff uses cutting-edge technology and adheres to the strictest national and international quality standards.

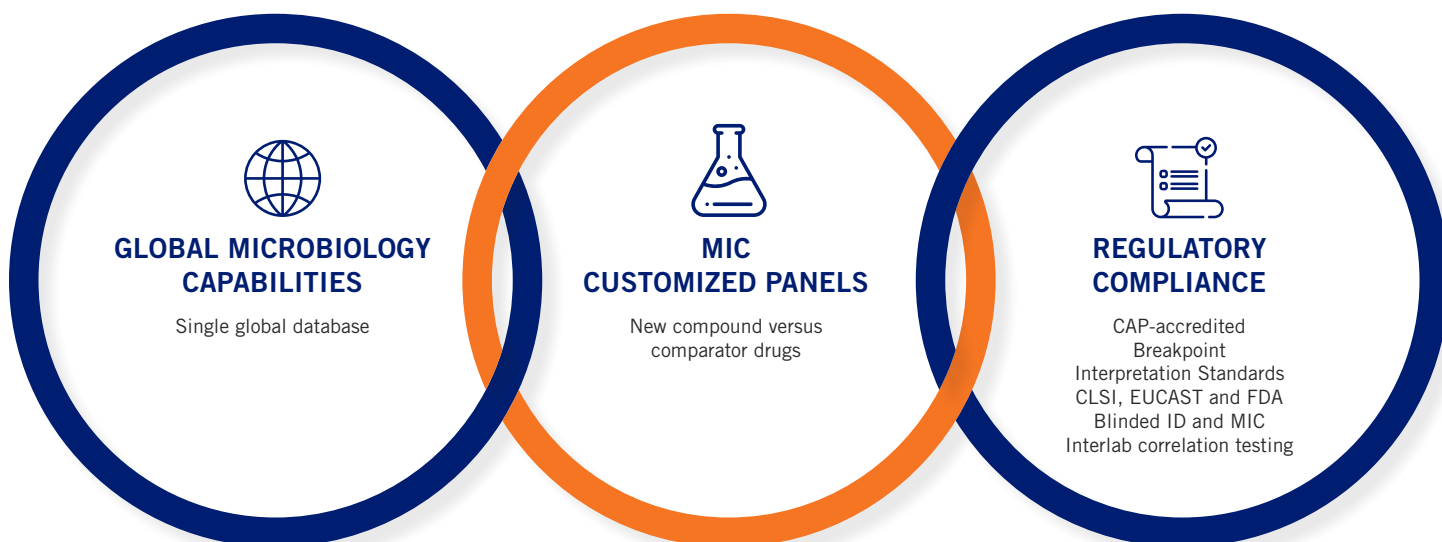
## Maintaining Bacterial Organism Viability from Patient to Central Lab

At Eurofins Central Laboratory we fully understand that maintaining bacterial organism viability from patient to Central Laboratory requires careful planning and execution, as ultimately the effectiveness of new anti-infective drugs will be judged from both clinical and microbiological outcomes.

The processes required for Microbiology versus Safety Testing are widely divergent, and even within Microbiology Testing, each clinical trial may use a different approach compared to diagnostic microbiology testing in a hospital setting. One of the major differences may be whether or not an investigational site will obtain patient specimens for further processing, culturing and pathogen identification at the local microbiology laboratory. In case the raw specimen is processed at Eurofins Central Laboratory, transportation conditions and time lines are of pivotal importance for maintain specimen integrity and pathogen viability. Therefore, our scientific affairs committee provides expert advice on specimen collection and transport, feasibility and methodologies.

## Innovative Technology to Meet Your Needs

Eurofins Central Laboratory is fully equipped to perform organism identification, characterization, and antimicrobial susceptibility testing using conventional or automated methods, including multiplex PCR technology and MALDI-TOF MS. Depending on the specifics in the Study Protocol, our Microbiology Laboratories commence bacteriology testing from both isolates and clinical samples (raw specimens) provided by the investigational sites.



## Classical Microbiology

- Semi-quantitative culture and isolation of target pathogens from clinical samples (e.g., sputum, throat, urine, wound, stool)
- Quantitative culture; cfu/ml (sputum, urine)
- GRAM stain
- Identification (MALDI-TOF and/or Biochemical Testing)
- Resistance monitoring
  - Antibigram
  - MIC micro broth dilution
  - Kirby Bauer Disk diffusion
  - E-Test
  - Agar dilution

## Stool Sample EIA Testing

- Clostridium difficile Toxin A and B detection
- EHEC (Enterohemorrhagic E. coli) Shiga toxins 1 and 2 direct detection

## Re-Identification of Isolates

- Identification / confirmation
- Resistance monitoring
  - Antibigram
  - MIC micro broth dilution
  - Kirby Bauer Disk diffusion
  - E-Test
  - Agar dilution

## Mycology

- Specimen culture for yeasts
- Identification of yeasts and yeast-like organisms

## Molecular Testing - MRSA

- MecA/PVL gene detection - qualitative



Central  
Laboratory

### Eurofins Central Laboratory Lancaster

2430 New Holland Pike  
Lancaster, PA 17601  
USA  
Tel +1 717 556 7350  
Fax +1 717 556 3888

### Eurofins Central Laboratory Breda

Bergschot 71  
4817 PA Breda  
The Netherlands  
Tel +31 76 572 7272  
Fax +31 76 573 7778

### Eurofins Central Laboratory Singapore

1 International Business Park  
The Synergy, #01-16  
Singapore 609917  
Tel +65 6562 3858  
Fax +65 6304 7389

### Eurofins Central Laboratory Shanghai

6th Floor, Building 18, No 2168  
ChenHang Road  
Minhang District  
Shanghai 201100  
China  
Tel +86 21 3620 2828  
Fax +86 21 6181 6850

clinicaltrials@eurofins.com  
eurofinscentrallaboratory.com

A member of the Eurofins Group