

MOBILE BIOLOGICAL LABORATORIES GML

innovative solutions to fight disease.

Real time diagnostic and reporting to cut the
transmission chain of epidemics.



globalmobilelab.com

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A COMPLETE SOLUTION FOR THE DIAGNOSIS, SURVEILLANCE, AND MANAGEMENT OF INFECTIOUS DISEASES

Building on its extensive operational experience in the field during major public health crises, particularly the Ebola outbreak in Guinea between 2014 and 2015, **B-LiFE—now operating as Global Mobile Lab (GML)**—has developed a new generation of mobile biological laboratories capable of delivering advanced diagnostic capabilities directly to affected populations.

Designed to operate in remote environments, crisis zones, and regions with limited infrastructure, GML's mobile biological laboratories provide a comprehensive, self-sufficient, and rapidly deployable solution for the detection, identification, and surveillance of a wide range of infectious pathogens.

Our field experience has shown that, during a public health emergency, the speed of diagnosis is often the decisive factor between containing an outbreak and allowing it to spread. For this reason, GML mobile biological laboratories have been specifically designed to deliver reliable, reproducible, and actionable results, even under the most demanding operational conditions.



A MODULAR AND CUSTOMIZABLE PLATFORM

THE MODULAR DESIGN ALLOWS THE FOLLOWING ELEMENTS TO BE ADAPTED:

- The required biosafety level;
- Analytical capabilities;
- Diagnostic equipment;
- Communication systems;
- Storage capacity;
- Deployment infrastructure.

As a result, each project can be tailored to meet specific national, regional, or institutional requirements.

EXTENSIVE DIAGNOSTIC CAPABILITIES

GML mobile biological laboratories enable the detection, identification, and surveillance of numerous pathogens responsible for both human and animal infectious diseases.

The systems can be configured to work with, among others:

- Ebola virus
- Marburg virus
- Lassa virus
- Crimean-Congo Hemorrhagic Fever virus
- Coronaviruses (COVID-19, SARS, MERS)
- Influenza viruses
- Dengue virus
- Zika virus
- Chikungunya virus
- Yellow fever virus
- Hepatitis B and C viruses
- Mpox (Monkeypox) virus

DETECTION OF NUMEROUS BACTERIAL PATHOGENS

- *Vibrio cholerae* (cholera)
- *Mycobacterium tuberculosis*
- *Salmonella* spp.
- *Shigella* spp.
- *Yersinia pestis*
- *Bacillus anthracis*

The equipment can also be used for environmental, veterinary, public health, and epidemiological surveillance analyses.



A COMPLETE FIELD LABORATORY

The laboratory integrates all the functions required for a modern diagnostic workflow:

- Sample reception and secure handling
- Pathogen inactivation
- Automated DNA and RNA extraction
- Molecular diagnostics by RT-qPCR
- Next-generation genetic sequencing (NGS)
- Analysis and validation of results
- Data management and archiving

This integrated organization makes it possible to perform in the field analyses that are normally reserved for high-level fixed biological laboratory facilities.

BSL-3 BIOSAFETY AND PERSONNEL PROTECTION

Operator safety is our highest priority.

GML mobile laboratories incorporate the BSL-3 gloveboxes developed by GML to ensure the safe handling of the most hazardous biological agents.

The systems provide:

- Continuous pressure monitoring and control
- Leak-tightness monitoring
- Integrated decontamination systems
- Secure sample transfer chambers
- Certification in accordance with applicable standards

This architecture enables a high level of biological safety while maintaining exceptional mobility.



COMPLETE AUTONOMY

GML mobile biological laboratories are designed to operate autonomously.

The installations may include:

- Deployable laboratory tents
- Power generators
- Air conditioning systems
- Specialized refrigerators and freezers
- Computer and IT equipment
- Technical laboratory furniture
- Autonomous lighting systems

This self-sufficiency enables rapid deployment in remote regions or areas affected by natural disasters, armed conflicts, or disease outbreaks.



Advantages and prices

TRAINING AND CAPACITY BUILDING



Beyond the provision of equipment, GML supports users in the sustainable development of their national capabilities. Each laboratory is delivered with a comprehensive training program designed for physicians, biologists, and laboratory technicians, ensuring rapid familiarization with the equipment and its optimal use.

This training is provided by Professor Kabamba-Mukadi, Head of the Microbiology Laboratory at UCLouvain, one of Belgium's leading reference laboratories.*

COMMUNICATIONS AND EPIDEMIOLOGICAL SURVEILLANCE



The laboratories can be equipped with secure satellite communication systems, enabling data transmission, operational coordination, and remote supervision. Real-time epidemiological mapping solutions integrating satellite data can also be deployed to enhance disease surveillance and support informed decision-making.

A SOLUTION FOR THE FUTURE



GML mobile biological laboratories provide governments, international organizations, research institutes, and healthcare services with a modern field-based capability for diagnostics and disease surveillance.

They represent an essential tool for outbreak management, public health surveillance, humanitarian interventions, and the strengthening of national and regional biosafety capacities.

INDICATIVE BUDGET



Complete Mobile Biological Laboratory:

Price available upon quotation, according to the client's specific requirements.

Delivery Time:

Approximately 4 months following contract signature.

⚠ Due to the current international situation, prices are subject to change.

*Accredited in accordance with ISO 15189:2012 under Accreditation Certificate No. 106-MED.

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