

G LAB

MOBILE LABORATORY COVID-19

By Genesmart Technologies

[EXPLORE THE MOBILE SOLUTION](#)



EXPERTISE

ABOUT ...

We are genesmart technologies

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DYNAMIC



Philosophy. Make molecular diagnostics accessible to everyone.

Mission. Reliable and suitable products for each laboratory.

Strategy. A high-quality, personalized solution to meet your needs.

Objective. Ensure continuous innovation in all diagnostic areas.

Genesmart Technologies is a biotechnology company operating in the field of molecular biology and laboratory industry in different areas such as medical, food, veterinary and environmental diagnostics.



G LAB® mobile laboratories are designed according to the latest international standards thanks to a strong expertise in biotechnology and project management.

G LAB[®]

COVID-19 MOBILE DIAGNOSTIC LABORATORY

G LAB[®] is the solution designed by Genesmart Technologies to support the capacities of national and global health system to fight covid-19 pandemic.



BSL 2+ mobile laboratory for molecular diagnosis of SARS-CoV-2 complying with the requirements of ISO-15189 and ensuring excellent quality of result.

TurnKey solution: Mobile unit operational in a few hours only: Mobilization / Demobilization and rapid deployment.

The transport and deployment of the unit could be provided by Genesmart Technologies Network.

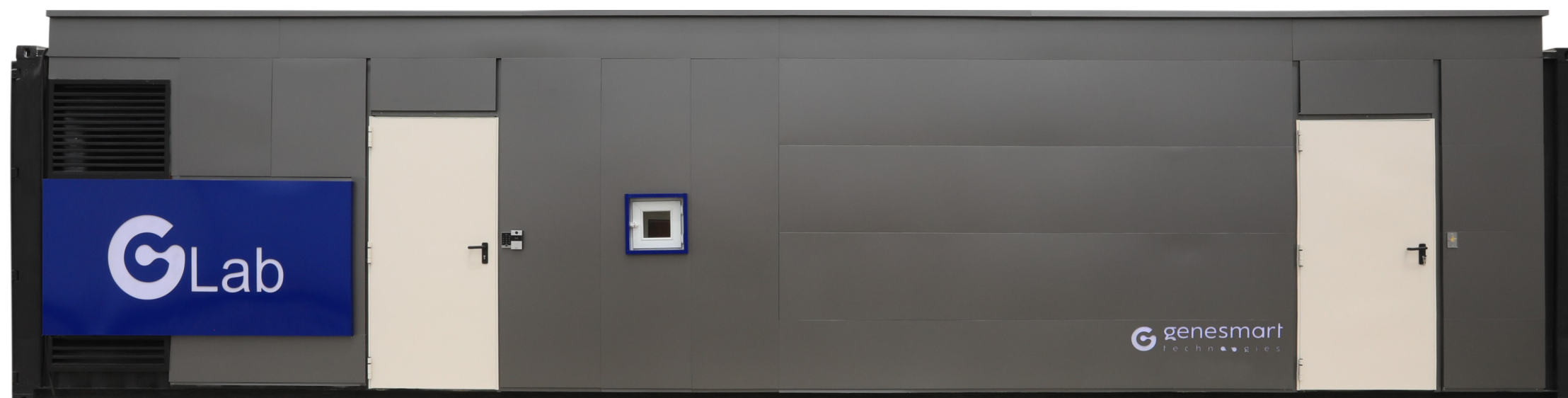
Laboratory set-up and technical verification (HVAC system, pressurizations, realtime monitoring, stock management, laboratory equipment).

MOBILE SOLUTION

UP TO 1000 TESTS / DAY

QUALIFIED TEAM TO WORK WITHIN THE MOBILE UNIT

IN ACCORDANCE WITH ISO-15 189 STANDARDS REQUIREMENTS



« G LAB[®] » EQUIPEMENT MOLECULAR DIAGNOSIS



Extraction area:

- PSMclass II for handling samples,
- CroBEE16PLUS Geneproof extractor (16test / h),
- Maelstrom4800 extractor (48 tests / 30min).

Extraction capacity up to **112 tests / hour**

Amplification area:

- Independent mixing room equipped with a PCR cabin,
- CroBEE real-time PCR system (Capacity of 96 tests / hour) installed in a separate room.

The laboratory can achieve a throughput of **1000 tests per day**

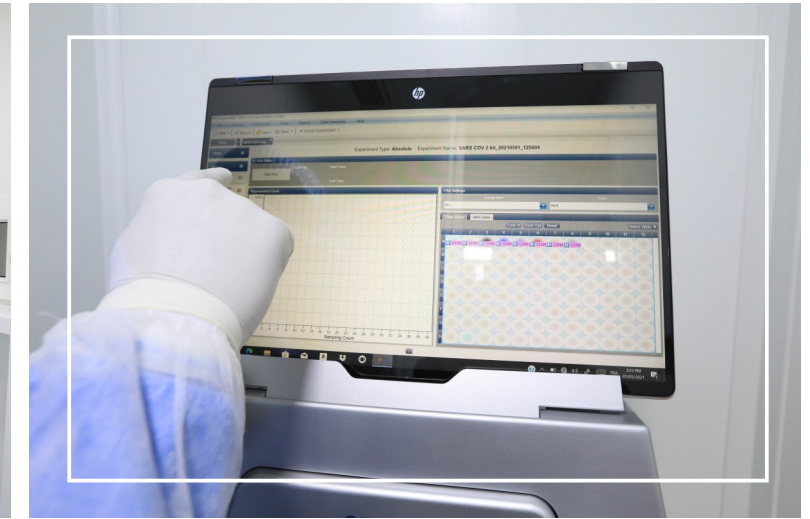
Ready-to-use Solution Includes:

- CE / IVD extraction and amplification reagents: kit allowing the detection of the three RdRp, N and E genes as well as a kit for the detection of the British, Brazilian, South African variants...
- Consumables and laboratory equipment,
- Dedicated storage areas with temperature management,
- Individual protection equipment (PPE).

EXPLORE

G LAB[®] ASPECTS

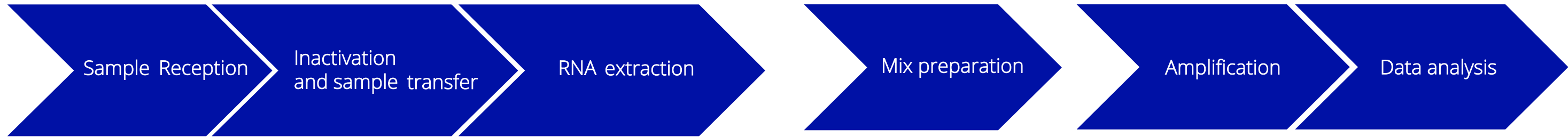
- Three independent rooms with air **treatment (absolute filtration) and negative pressure.**
- The Pre-PCR zone is separated from the Post-PCR zone by an **airlock area compliant with standards.**
- Respect for the way forward.
- **30m²** Total area.



G LAB[®] mobile laboratories that meets hygiene, safety and accessibility requirements :

- The various aspects related to the proper functioning of the laboratory are governed by operational procedures,
- Separation airlock with infrared controlled sink and PPE storage,
- Remote camera supervision,
- Communication system between the different zones,
- Easy-to-clean antibacterial coating,
- Controlled access to ensure compliance with walking forward principles,
- Real-time monitoring of various parameters,
- Waste management in accordance with the regulations.

MOBILE SOLUTION



Reception and registration of samples.



Handling of samples in accordance with international safety regulatory requirements.



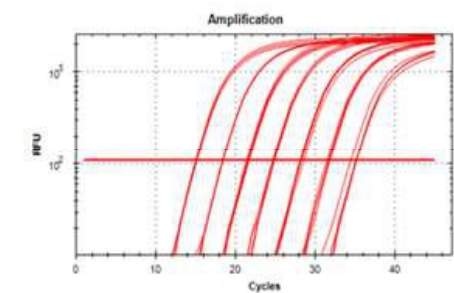
Automated RNA extraction to standardize technique and ensure result effectiveness in less than one (1) hour.



Preparation of the mixes in a dedicated space under a PCR cabinet in order to avoid any contamination in accordance with good laboratory practice.



RT-PCR amplification system with 96-position and Bluetooth connection.



Data Interpretation with remote access capabilities.

**RESULT READY IN TWO HOURS
CAPACITY OF 500 TESTS / DAY**

PROCESS

*We help you to meet the diagnostic challenge
in the most remote regions.*

A turnkey solution for an immediate deployment !

**LET'S MOBILIZE
OUR EFFORTS!**



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