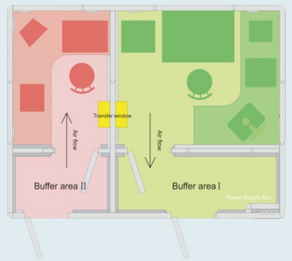
Installation Requirements Of Standard PCR Laboratory

Installation Requirements

①The minimum installation space for a Gene Lab is 6.0×4.5×3.0 meters (L×W×H)
②The floor should be flat with a variance of less than 5 mm/2M.
③Preliminary site preparations must include:

- Installation of vent ductwork for positive airflow system
- Wiring for 220V/110V, 50Hz, 5kW
- Plumbing connections for water and drains
- Connections for network and telephone wiring

Layout		
Size(mm)	Layout 1: 1500 + 2650 + 1500 Layout 2: 1500 + 2650 + 2650 Layout 3: 2650 + 2650 + 2650	Layout 4: 2850 + 2850 Layout 5: 1500 + 4200

Additional Requirements for the Standard Installation, not included in SL-6040A Gene Lab

Equipment for PCR Amplification Area

• Real-Time PCR Detection System • Pipette • Windows-based PC and Printer • Mobile UV lamp

Equipment for Sample Preparation Area

• Biological Safety Cabinet (class Ⅱ) • Pipette • Mobile UV • Refrigerator • Shaker
• Heating/Cooling Block • Waste Container • High-Speed Refrigerated Centrifuge

Equipment for Reagent Preparation Area

• Refrigerator • Centrifuge • Pipette • Shaker • Mobile UV Lamp

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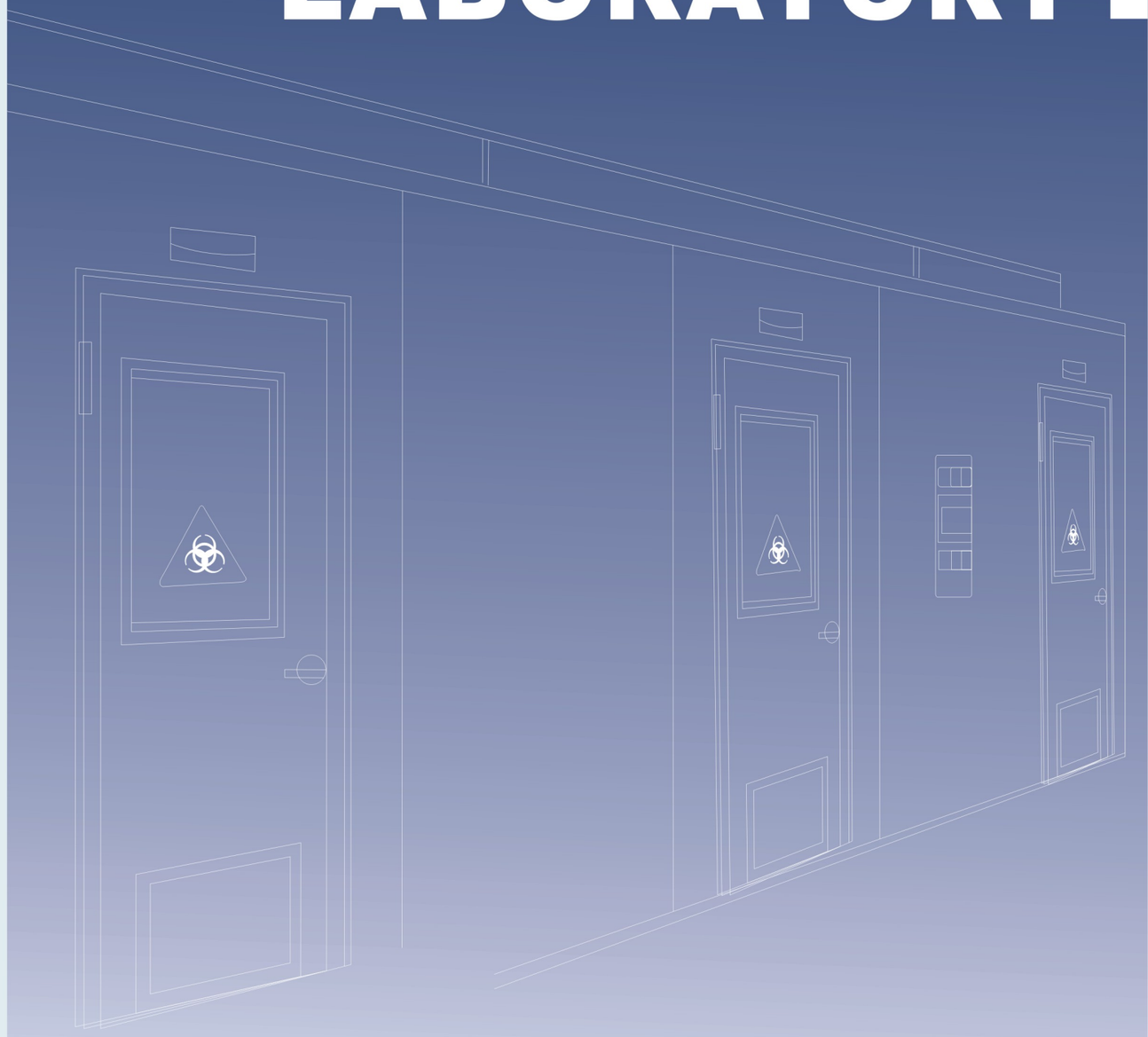
Add:1192 Bin An Rd, Hi-tech(Binjiang) District, Hangzhou,310053, P.R.China
Tel：+86-571-87774252 / 87774567-5279 Fax：+86-571-87774553
Http://www.bioer.com.cn E-mail:instrument@bioer.com.cn

STANDARD PCR LABORATORY



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SL-6040A

PCR

ENTIRETY

● SL-6040

Introduction:

BIOER's SL-6040 Gene Lab is a "turn-key"gene analysis laboratory.It provides an easy way to establish an area-segregated, nucleic acid amplification laboratory with uni-directional wok-flow.Gene Lab will save you much of the time,effort and cost associated with traditional lab design and construction.The laboratory consists of three separate work areas, each with its own segregated air supply and buffered entry area.

- Comlete laboratory installation from a fully engineered and standardized design.
- Strict accordance with the specifications designed for installation process, synchronized with material assembled, equipment can be used immediately.
- Before installation to help customers ensure that the installation conditions. Such as: Power supply voltage、Power line location、Location of the telephone network line into the line 、Water pressure、Minimum installation space、Surface roughness、Vents、the location of inlet pipe and drain pipe、ideal size of the space and vent.
- System includes an operation procedure that provides information on lab operating principles,equipment recommendations and organization, safety provision/considerations and maintenance;information that provides a quick start toward development of your own customized analysis,quality control,maintenance and regulatory compliance procedures.

Comprehensive consideration

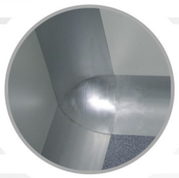
Overall layout si in good style, establishments are self-contained, arrangement is reasonable.
Intend to provide a well-lighting and comfortable working environment.

• Appropriately located racks for protective garments

• Centrally located switch and circuit breaker panel

• Each lab equipped with telephone and internet connections.

• Modular aluminum construction ensures airtight seams

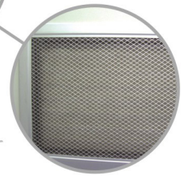


• Stainless steel sink with hands-free water faucet

• Ergonomically designed work areas increase comfort and efficiency

• Adjustable air flow vents in each work area

• Special designed filters remove dust and other particulates



Wonderful

Prepare → Site planning → Design drawings → Choose materials → Construction → Acceptance

Believe Bioer

Efficient service — Stable quality, convenient
Normative service — Provide technical guidance and consultion

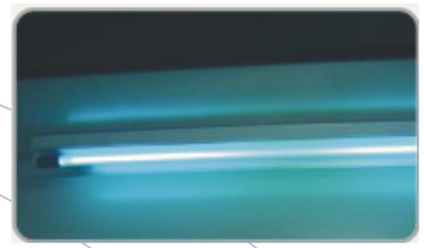
Measures For Anti-Contamination

Multiple safety protection system
Ensure the safety of People, the environment and specimen

Air exhaust pipe system

• Set as standard three areas and air pressure is Adjustable:
PCR amplification、Sample preparation and Reagent prepration,the three segregated working area provided by the Gene Lab SL-6040A with different air flow control.
The air pressure in each working area can be independently adjusted to prevent aerosol contamination.

Secure electronic airlock: reduce the possibility of sample contamination(for sample transfer)



UV disinfection:
Three experimental area ,the top of three buffer and the pass box equipped with ultraviolet light used for disinfection.Preparation area where is reagents area and specimen area also have moved UV light,it sterilize partial of the experimental table.

Safe and hermetic:
Labratory partitions are constructed of high quality, hard-surfaced materials including aluminum alloy hardware and wall panles.