



ALC-Scientific

FOR BIOLOGY, CHEMISTRY, MEDICAL, BIOTECHNOLOGY, AND ENVIRONMENTAL
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MOLECULAR BIOLOGY / ELECTROPHORESIS

HORIZONTAL GEL ELECTROPHORESIS UNIT

Clear, modular separation for routine gel workflows.

The ALC-HGE150 is a proposed horizontal gel electrophoresis unit for routine separation and analysis of DNA and RNA fragments. Its leak-resistant chamber, removable gel tray and flexible comb options support PCR-product checking, restriction analysis and teaching workflows.



GEL TRAY

Approx. 150 x 100 mm

BUFFER VOLUME

Approx. 500-800 mL

COMB OPTIONS

8, 10, 12, 15, 18 or 20 wells

PROPOSED MODEL

ALC-HGE150

CATALOGUE NUMBER

ALC-MB-HGE-150

PROPOSED SPECIFICATION SET

Final values, accessories, warranty and compliance documents require approval against the selected OEM datasheet.



PRODUCT OVERVIEW

Routine DNA and RNA separation with a clear, modular gel chamber.

The ALC-HGE150 Horizontal Gel Electrophoresis Unit is intended for routine agarose-gel separation and analysis of nucleic-acid fragments. A transparent, leak-resistant chamber allows visual monitoring, while the removable UV-transparent gel tray and multiple comb positions support flexible casting and sample loading. The system may be paired with a compatible programmable power supply according to the selected configuration.

**GEL TRAY**

Approx. 150 x 100 mm

BUFFER VOLUME

Approx. 500-800 mL

COMB FORMAT

8-20 wells; 1.0/1.5 mm

Key Features

- One-piece leak-resistant electrophoresis tank
- UV-transparent removable gel tray
- Multiple comb positions
- Safety lid with electrical interlock
- Corrosion-resistant electrodes
- Simple gel casting and sample loading
- Easy cleaning and routine maintenance
- Optional compatible programmable power supply

Working Principle

An electric field is applied across the gel submerged in running buffer. Negatively charged nucleic-acid fragments migrate through the gel matrix toward the positive electrode. Smaller fragments generally move more rapidly than larger fragments, enabling size-dependent separation under the selected voltage, gel concentration and run time.

TYPICAL APPLICATIONS

DNA electrophoresis / RNA electrophoresis /
PCR-product analysis / Restriction-fragment analysis /
Plasmid analysis / Academic teaching



PROPOSED TECHNICAL DATA

All model-specific values require OEM confirmation.

PARAMETER	PROPOSED SPECIFICATION
Gel tray size	Approximately 150 x 100 mm
Alternative tray sizes	100 x 70 mm or 200 x 200 mm
Buffer volume	Approximately 500-800 mL
Comb positions	Minimum two
Comb options	8, 10, 12, 15, 18 or 20 wells
Comb thickness	1.0 mm and 1.5 mm
Maximum sample capacity	Comb-dependent
Electrode material	Platinum wire - proposed
Tank material	UV-resistant transparent acrylic/polycarbonate
Safety feature	Lid interlock or recessed electrical connectors
Recommended voltage	Application-dependent, normally up to 150 V
External dimensions	To be confirmed
Net weight	To be confirmed

STANDARD SUPPLY

- Electrophoresis tank
- UV-transparent gel tray
- Casting gates or casting stand
- Two combs
- Connecting leads
- Operation manual

INSTALLATION & USE

- Stable, level bench
- Compatible electrophoresis power supply
- Correct buffer and gel depth
- Dry connectors before energising
- Disconnect power before opening lid
- Follow OEM cleaning guidance

TO BE CONFIRMED

- Final tray and chamber size
- Exact supplied comb configuration
- Dimensions and weight
- Electrode and tank materials
- Optional accessory compatibility
- Warranty and documents



LABORATORY APPLICATIONS

A practical platform for routine DNA and RNA gel separation.

Applications

- DNA and RNA electrophoresis
- PCR-product checking
- Restriction-fragment analysis
- Plasmid analysis
- Routine agarose-gel workflows
- Academic teaching and training

Product Advantages

- Clear chamber supports visual monitoring
- Multiple tray and comb configurations proposed
- Simple casting, loading and cleaning workflow
- Safety lid or recessed connector arrangement
- Compatible with routine electrophoresis power supplies
- Available as a complete package under ALC-HGE150-P
- OEM-ready branding and documentation coordination



SCAN TO REQUEST A QUOTE

Request a model-specific quotation.

Share the required gel size, sample throughput, comb format, power-supply preference, quantity, delivery city and documentation needs. Final values and accessories are issued with the approved technical datasheet and quotation.

ALC-SCIENTIFIC LABORATORY SYSTEMS

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OEM / PRIVATE LABEL AVAILABLE

Disconnect the power supply before opening the chamber or handling the gel. Product images are representative and may vary according to the selected configuration. Specifications, accessories, compliance documents and warranty conditions are those stated in the approved technical datasheet and commercial quotation.