



MOLECULAR BIOLOGY / PROTEIN ELECTROPHORESIS

MINI SDS-PAGE VERTICAL ELECTROPHORESIS UNIT

Compact vertical separation for protein workflows.

A proposed compact vertical electrophoresis system for SDS-PAGE and native PAGE protein separation using one or two mini gels.



GEL FORMAT

Mini vertical

NUMBER OF GELS

One or two

GEL THICKNESS

0.75 / 1.0 / 1.5 mm

PROPOSED MODEL

ALC-VGE100

CATALOGUE NUMBER

ALC-MB-VGE-100

PROPOSED SPECIFICATION SET

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



PRODUCT OVERVIEW

Compact vertical separation for protein workflows.

The ALC-VGE100 Mini Vertical Electrophoresis Unit supports routine SDS-PAGE and native PAGE workflows. A compact tank, glass-plate clamping system, gel-casting arrangement and interchangeable combs allow one or two mini gels to be prepared and run with relatively low buffer consumption.



GEL FORMAT

Mini vertical

NUMBER OF GELS

One or two

GEL THICKNESS

0.75 / 1.0 / 1.5 mm

Key Features

- Runs one or two mini gels
- Suitable for SDS-PAGE and native PAGE
- Leak-resistant glass-plate clamping system
- Compatible with hand-cast or supported precast gels
- Colour-coded electrical connections
- Safety lid and connecting leads
- Low buffer consumption
- Easy assembly, casting and cleaning

Working Principle

Proteins migrate through a polyacrylamide gel when voltage is applied. In SDS-PAGE, detergent treatment gives proteins a broadly uniform charge-to-mass relationship, allowing separation primarily by molecular size. Native PAGE preserves more of the protein structure and charge state.

TYPICAL APPLICATIONS

SDS-PAGE / Native PAGE / Protein separation /
Molecular-weight analysis / Western-blot sample preparation /
Teaching laboratories



PROPOSED TECHNICAL DATA

Model-specific values require OEM confirmation.

PARAMETER	PROPOSED SPECIFICATION
Gel format	Mini vertical gel
Gel size	Approximately 100 x 100 mm
Number of gels	One or two
Gel thickness	0.75, 1.0 or 1.5 mm
Sample capacity	Approximately 10-15 wells per gel
Plate configuration	Notched and plain glass plates
Buffer volume	Approximately 600-800 mL
Electrode material	Platinum wire
Tank material	Transparent moulded polymer
Power supply	Constant voltage/current electrophoresis supply

STANDARD SUPPLY

- Vertical electrophoresis tank
- Safety lid and connecting cables
- Electrode assembly
- Glass-plate and spacer sets
- Combs and casting stand
- Clamps and operation manual

OPTIONAL / MODEL-DEPENDENT

- Additional glass-plate sets
- Different comb formats
- Spacer plates
- Blotting module
- Cooling module
- Compatible power supply

TO BE CONFIRMED

- Final gel and plate dimensions
- Number of gels and well capacity
- Buffer volume and electrode material
- Warranty and compliance documents



LABORATORY APPLICATIONS

A practical platform for professional laboratory workflows.

Applications

- SDS-PAGE
- Native PAGE
- Protein separation
- Molecular-weight analysis
- Western-blot sample preparation
- Teaching laboratories

Product Advantages

- Compact mini-gel format
- One- or two-gel flexibility
- Low buffer consumption
- Simple casting and clamping
- Expandable accessory options

INDUSTRIES SERVED

Protein research laboratories / Biotechnology laboratories / Universities and colleges / Pharmaceutical research

SCAN TO VIEW PRODUCT



Request a model-specific quotation.

Share your application, required capacity or range, quantity, installation city and documentation needs. Final performance values and accessories are issued with the approved datasheet and quotation.

ALC-SCIENTIFIC LABORATORY SYSTEMS

OEM / PRIVATE LABEL AVAILABLE

alcscientific.com | info@alcscientific.com | +91 89501 26206

Product images are for reference and may vary by configuration. Specifications, dimensions, accessories and designs are subject to change. Final specifications are those in the approved technical datasheet and commercial quotation. Standard warranty: To be confirmed according to the selected product and approved commercial quotation.