HIMEDIA
Celebrating 50 Golden Years
1974 - 2024

ELECTROPHORESIS SERIES

HIMEDIA
HiGenoMB®
Unzipping Genes

HIMEDIA®
For Life is Precious

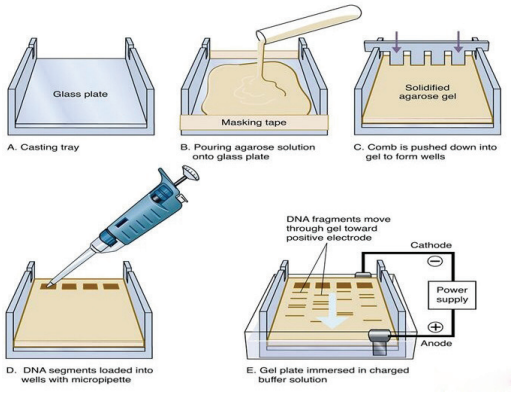
Introduction

The basic technique of electrophoresis was founded by Arne Tiselius in 1931. This method involves migration and thus separation of DNA/protein depending upon its molecular weight between an electric field. The Electrophoresis procedure is carried out by loading the samples on a gel (either agarose or polyacrylamide gel) which is casted in a casting apparatus. The gel is then run in the presence of appropriate buffers with electric current passed across the positive and negative terminals using an electric power supply/ power pack. The samples gradually move depending on the size of the DNA or Protein. An agarose gel is visualized under UV light using a trans illuminator to observe the samples.

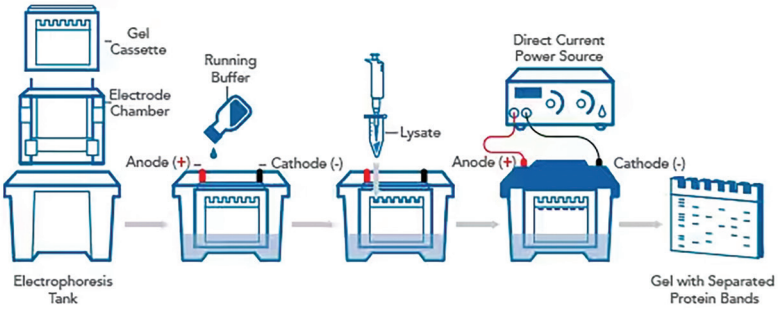
Electrophoresis technique requires electrophoresis apparatus, power pack and trans illuminator to successfully carry out the experiment. This brochure gives an insight into the different types of equipments that HiMedia offers for Electrophoresis.

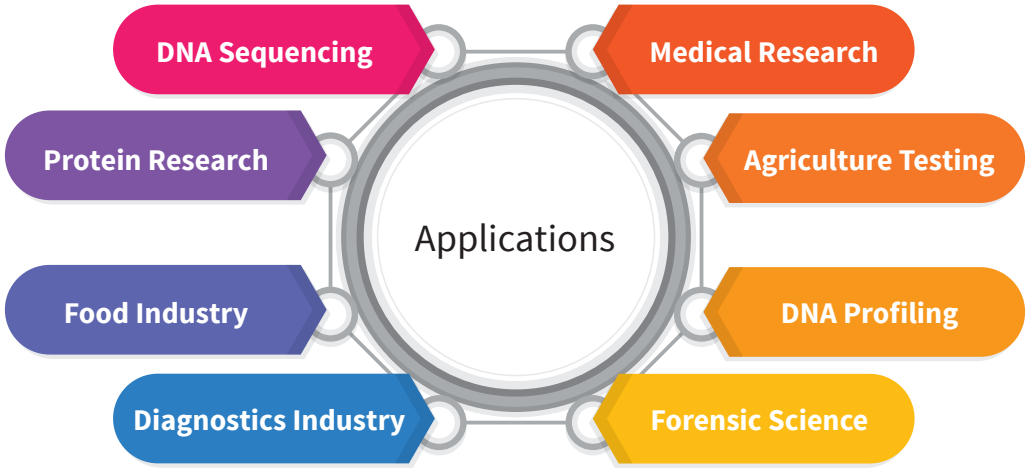
Process Flow

Horizontal Electrophoresis System



Protein Electrophoresis System





Horizontal Electrophoresis System

Hi-Gel® Run0610 - LA665

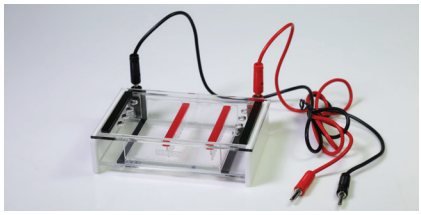
Accessories :

- Main buffer chamber
- Connecting Cables: 1 Set (Black & Red)
- Gel Casting Tray LA665CT
- Well Comb **(6 well & 10 well)** LA665C
- Detachable Electrodes (Anode, Cathode) LA665RE & LA665BE

Hi-Gel® Run1014 - LA666

Accessories :

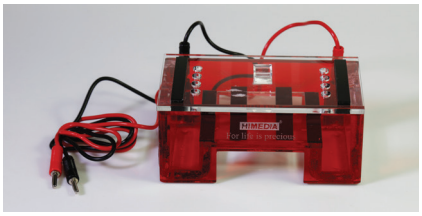
- Main buffer chamber
- Connecting Cables: 1 Set (Black & Red)
- Gel Casting Tray LA666CT
- Well Comb **(10 well & 14 well)** LA666C
- Detachable Electrodes (Anode, Cathode) LA666RE & LA666BE



Hi-Gel® Run0608 - LA844

Accessories :

- Main buffer chamber
- Connecting Cables: 1 Set (Black & Red)
- Well Comb **(6 well & 8 well)** LA844C



Cellulose Acetate Electrophoresis - LA1027

Accessories :

- Main buffer chamber
- Connecting Cable: 1 Set (Black & Red)

Features

- Detachable electrodes
- Compact System
- Quick setup & Easy visualization of sample
- Long life pure platinum electrodes

Hi-Gel® Run 100 Well - LA1075

Accessories :

- Main buffer chamber
- Connecting Cables: 1 Set (Black & Red)
- Gel Casting Tray LA1075CT
- Well Comb options :
  i) **4 Nos. x 25 well** /
  ii) 4 Nos. x 14 well Multichannel Compatible LA1075C
- Detachable Electrodes (Anode, Cathode) LA1075RE & LA1075BE

Specification

Parameter	LA665	LA666	LA1075	LA1027	LA844
Tank Size L x W x H (in cm)	17.6 x 12 x 9.5	22 x 15 x 9.5	35 x 17 x 10	17.6 x 12 x 9.5	16.2 x 9.9 x 2.9
Gel Tray Size (in cm)	7 x 8	9 x 11	24 x 13	10 x 7	10 x 7.5
Sample Capacity (Nos.)	16	24	100	--	14
Max. Buffer Volume (in ml)	400	600	800	400	150
Comb Configurations (teeth)	6 & 10	10 & 14	25 x 4 combs	--	6 & 8
Compatible Power Supply	LA690	LA690	LA690	LA690	LA842

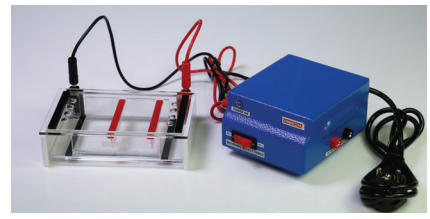
Gel Casting Apparatus

Hi-Gel® Caster - LA1076

Accessories :

- To cast Agarose Gels conveniently with HiMedia's Hi-Gel Caster
- Max. Gel tray 14x12cm

Electrophoresis with Power Pack



(Combination of LA844 & LA842)

Hi Eco Mini Horizontal Electrophoresis - LA851

Accessories :

- Gel Casting Tray: 1 No.
- Well Comb: 2 Nos. (**6** well & **8** well)
- Anode Electrode: 1 No.
- Cathode Electrode: 1 No.
- Connecting Cable: 1 Set (Black & Red)

Electrophoresis Power Supply

Electrophoresis Power Supply (2 Terminals) - LA842

Accessories :

- Connecting Cable: 1 Set (Black & Red)
- Output Range : 50 / 100 VDC

Electrophoresis Power Supply (4 Terminals) - LA690

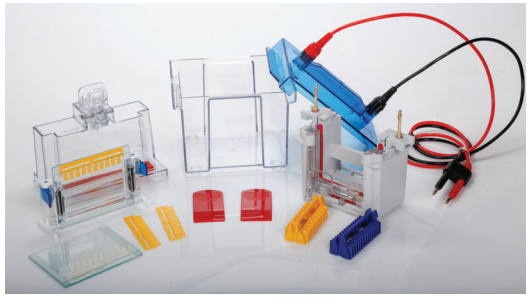
Accessories :

- Connecting Cable: 1 Set (Black & Red)
- Output Range : 10 to 300 VDC

Power Supplies

Parameter	LA690	LA842
Output Range	10 to 300 VDC	50 V / 100 VDC
No. of Outputs	4	2
Compatible With	All Electrophoresis Range	LA844

Protein Electrophoresis System



Wee Vert® - LA1070

Features :

- ✧ One/Two Gels at once As Per Requirement
- ✧ Uninhibited Polymerisation with Plastic Combs
- ✧ Smaller Tank Requires Minimal Buffer Quantity
- ✧ Loading becomes easier with Sample Loading Guides

Accessories :

- ✧ LA1070A : Tank
- ✧ LA1070B : Lid with power cables
- ✧ LA1070C : Clamping Frame
- ✧ LA1070D : Electrode Assembly
- ✧ LA1070E : Buffer Dam
- ✧ LA1070F : Spacer Plate (1.0 mm)
- ✧ LA1070G : Short Plate
- ✧ LA1070H : Casting Stand
- ✧ LA1070I : Comb (1.0mm, 10 well)
- ✧ LA1070J : Comb (1.0mm, 15 well)
- ✧ LA1070K : Comb (1.5mm, 10 well)
- ✧ LA1070L : Comb (1.5mm, 15 well)
- ✧ LA1070M : Casting Frame
- ✧ LA1070N : Sample Loading Guide (10 well)
- ✧ LA1070O : Sample Loading Guide (15 well)
- ✧ LA1070P : Gel Releaser

Specifications :

Number of gels	2
Gel size (W x L)	8.3×7.3 cm
Glass plate size Short plate Spacer plate	 10×7.3 cm (W×L) 10×8.3 cm (W×L)
Total buffer volume	900 ml
Typical run times for SDS-PAGE	Depend on Electrophoresis Conditions
Recommended power supply	LA690
Dimensions (W x L x H)	20 x 12.5 x 16 cm
Weight, kg/lb	0.8 Kg / 1.7lb

Blotting Apparatus

Wee Blot® - LA1088

Features :

- ✧ Essential for wet electro blotting of proteins - Western blotting
- ✧ Smaller Tank Requires Minimal Buffer Quantity
- ✧ Four blots Transferred in ONE SINGLE RUN

Accessories :

- ✧ LA1088A : Tank
- ✧ LA1088B : Lid with power cables
- ✧ LA1088C : Electrode Module
- ✧ LA1088D : Gel Holder Cassette (Including Fiber Pad)
- ✧ LA1088E : Fiber Pad

Innovative Cooling free blotter

Transfer can be done at (<30°C) without cooling function

Specifications :

Blotting area (W x L)	10×10 cm
Gel capacity	4
Number of gel holders	4
Buffer requirement	1400 ml
Electrode materials	Platinum
Transfer time	Depend on Electrophoresis Conditions
Cooling	Not required
Dimensions (W x L x H)	16 × 12 × 18 cm
Weight, kg/lb	0.8 Kg / 1.7lb

Recommended Instruments Available with HiMedia

Pipettes

Centrifuge

Transilluminator

Consumables Available with HiMedia

MB Grade Chemicals

Ready to use Buffers and Reagents

Ladders for DNA & Protein

Reagents for SDS page & Western blotting

Membranes for Western blotting

Pre-Poured gel

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