

# EcoSep

*Economic Separations*



[www.ecosep.in](http://www.ecosep.in)

*Horizontal Electrophoresis Apparatus*

*Vertical Electrophoresis Apparatus*

*Electroblotting Apparatus*

*UV-Transilluminators*

*Gel-Documentation*

*Power Packs*

Product Catalog

## VERTICAL ELECTROPHORESIS APPARATUS FEATURES

### ECONOMICAL

- Less buffer required by virtue of its compact design
- For faster separations the apparatus can be conveniently placed in the refrigerator due to its small footprint
- Saves reagent & operator cost as leakage & errors are prevented

### RUGGED

- Durable PMMA combs, spacers & thick glass plates
- No electrolytic corrosion of male connector as base is resin filled
- Electrodes do not break or pit as they are protected and the platinum is >99.9% pure

### LEAK-PROOF

- No leakage of upper tank buffer as silicone gasket is tough & resilient
- No leakage from plastic joints as bonding is done with special glues
- Leak-proof sealing with agar in lower tank trough

### ERROR MINIMIZATION

- No slippage of gel sandwich due to in-situ gel casting
- No migration of samples in wrong direction due to unidirectional feature
- Wells are not formed at a slant as combs sit leveled on spacers

## SELECTION GUIDE

Model	No. of gels at a time	Gel size			No. of wells/ gel	Vol/ well (µL)	Buffer requirement (mL)	Run time (min) <sup>α</sup>	Recommended power supply*
		width (cm)	length (cm)	thickness (mm)					
<b>SLIMPAGE</b> E0100142 E0100143	1	4	8.5	1.5	4	75	50	70	<b>Electravolt</b> E4100025
<b>ECOPAGE</b> E0200142 E0200143	1	7	8.5	1.5	8	75	100	70	

\*Power supply unit is not included in the ready-to-use systems.

<sup>α</sup>Run time is an approximate value for SDS PAGE, 1.5mm thick 10 % gel run at 110 V.

## Vertical gel apparatus

**SLIMPAGE**

## Regular model

(Cat. No. E0100142)

Regular model has standard electrodes and slim connectors

**SLIMPAGE-D**

## Deluxe model

(Cat. No. E0100143)

Deluxe model has thicker electrodes and stout connectors



- **Single sided model**
- **In-situ gel casting**
- **No sample loss due to uni-directional migration**
- **Gel size: 4 (w) x 8.5 (l) cm**
- **Gel thickness: 1.5 mm**
- **No. of wells: 4**
- **Buffer requirement: 50 mL**
- **10% SDS-PAGE run in 70 min**

**Ordering description****Slimpage:** Vertical electrophoresis, single-sided system of gel size 4 (w) x 8.5 (l) cm, with male connectors, in situ gel casting and uni-directional migration.**Slimpage-D:** Vertical electrophoresis, single-sided system of gel size 4 (w) x 8.5 (l) cm, with thicker electrodes and stout male connectors, in situ gel casting and uni-directional migration.**Ready-to-use system includes**

1. Lower anodic tank with electrodes and male connector
2. Cathodic electrode unit for *in situ* gel casting fitted with male connector and electrode
3. Resilient silicone gasket for cathodic electrode unit
4. Two notched and two rectangular glass plates
5. Four 1.5 mm thick, PMMA spacers
6. Two PMMA combs (1.5 mm thick, 4 wells, est. vol. 75 µL/well)
7. Set of clamps with screws
8. Electrical cords with male & female connectors designed for user safety (1 pair)
9. Instruction manual

**Suggestion****Order along with Ready-to-use system: a Gel-casting stand (E0133075), Glass plate stand (E0135045), Gel-sandwich opener (E6130257), Gel slicer (E6305150)**

Refer to page 12 for full list of spares and accessories

## Vertical gel apparatus

**ECOPAGE**

## Regular model

(Cat. No. E0200142)

Regular model has standard electrodes and slim connectors

**ECOPAGE-D**

## Deluxe model

(Cat. No. E0200143)

Deluxe model has thicker electrodes and stout connectors



- **Single sided model**
- **In-situ gel casting**
- **No sample loss due to uni-directional migration**
- **Gel size: 7 (w) x 8.5 (l) cm**
- **Gel thickness: 1.5 mm**
- **No. of wells: 8**
- **Buffer requirement: 100 mL**
- **10% SDS-PAGE run in 70 min**

**Ordering description****Ecopage:** Vertical electrophoresis, single sided system of gel size 7 (w) x 8.5 (l) cm, with male connectors, in situ gel casting, uni-directional migration.**Ecopage-D:** Vertical electrophoresis, single sided system of gel size 7 (w) x 8.5 (l) cm, with thicker electrodes and stout male connectors, in situ gel casting, uni-directional migration.**Ready-to-use system includes**

1. Lower anodic tank with electrodes and male connector
2. Cathodic electrode unit for *in situ* gel casting fitted with male connector and electrode
3. Resilient silicone gasket for cathodic electrode unit
4. Two notched and two rectangular glass plates
5. Four 1.5 mm thick, PMMA spacers
6. Two PMMA combs (1.5 mm thick, 8 wells, est. vol. 75 µL/well)
7. Set of clamps with screws
8. Electrical cords with male & female connectors designed for user safety (1 pair)
9. Instruction manual

**Suggestion****Order along with Ready-to-use system: a Gel-casting stand (E0233075), Glass plate stand (E0235065), Gel-sandwich opener (E6130257), Gel slicer (E6305150)**

Refer to page 12 for full list of spares and accessories

**SlimPage and its accessories**

E0100142	Slimpage, ready-to-use system	System
E0100143	Slimpage-D, ready-to-use system	System
E0105085	Clamps with screws (one pair)	Set
E0106148	Screws for clamps and CEU (two of each)	Set
E0109304	Silicone gasket for cathodic electrode unit	Piece
E0114042	Comb 1.5 mm thick, PMMA, 4 wells	Piece
E0117852	Spacers, 1.5 mm thick, PMMA (one pair)	Set
E0128082	Notched and rectangular glass plate, 8 (w) x 8.5 (l) cm (one of each)	Set
E0133075	Gel-casting stand with binder clips	Piece
E0135045	Glass plate stand	Piece

**EcoPage and its accessories**

E0200142	Ecopage, ready-to-use system	System
E0200143	Ecopage-D, ready-to-use system	
E0205085	Clamps with screws (one pair)	Set
E0206148	Screws for clamps and CEU (two of each)	Set
E0209304	Silicone gasket for cathodic electrode unit	Piece
E0214082	Comb 1.5 mm thick, PMMA, 8 wells	Piece
E0217852	Spacers, 1.5 mm thick, PMMA (one pair)	Set
E0228082	Notched and rectangular glass plate, 11 (w) x 8.5 (l) cm (one of each)	Set
E0233075	Gel-casting stand with binder clips	Piece
E0235065	Glass plate stand	Piece

**NanoBlot and its accessories**

E1100060	Nanoblot, ready-to-use system	System
E1103063	Cathode and anode plates with male connectors (2 mm), uni-directional insertion and migration feature	Set
E1106504	Gel membrane-holding cassette with guide-pins, stoppers and locking -nuts	Set
E1110075	Sponge pads (four)	Packet
E1121304	Guide pins with stoppers and locking nuts (two of each)	Packet

**SlimSub and its accessories**

E2100031	Slimsub, ready-to-use system with UV-opaque tray	System
E2100032	Slimsub, ready-to-use system with UV-transparent tray	System
E2100033	Slimsub-D, ready-to-use system with UV-opaque tray	System
E2100034	Slimsub-D, ready-to-use system with UV-transparent tray	System
E2101051	Cathode (black) and anode (red) electrode plates with 2 mm male connectors	Set
E2101052	Cathode (black) and anode (red) electrode plates with 4 mm male connectors	Set
E2103103	UV-opaque tray [3 (w) x 10 (l) cm]	Piece
E2103104	UV-transparent tray [3 (w) x 10 (l) cm]	Piece
E2110042	Comb 1.5 mm, PMMA, 4 well for 3 cm wide gel	Piece

**EcoSub and its accessories**

E2200071	Ecosub, ready-to-use system with UV-opaque tray	System
E2200072	Ecosub, ready-to-use system with UV-transparent tray	System
E2200073	Ecosub-D, ready-to-use system with UV-opaque tray	System
E2200074	Ecosub-D, ready-to-use system with UV-transparent tray	System
E2201553	Cathode (black) and anode (red) electrode plates with 2 mm male connectors	Set
E2101052	Cathode (black) and anode (red) electrode plates with 4 mm male connectors	Set
E2203101	UV-opaque tray [7 (w) x 10 (l) cm]	Piece

E2203102	UV-transparent tray [7 (w) x 10 (l) cm]	Piece
E2103103	UV-opaque tray [gel size 3 (w) x 10 (l) cm]	Piece
E2103104	UV-transparent tray [gel size 3 (w) x 10 (l) cm]	Piece
E2210082	Comb 1.5 mm, PMMA, 8 well for 7 cm wide gel	Piece
E2110042	Comb 1.5 mm, PMMA, 4 well for 3 cm wide gel	Piece

**TubbySub and its accessories**

E2300151	Tubbysub, ready-to-use system with UV-opaque tray	System
E2300152	Tubbysub, ready-to-use system with UV-transparent tray	System
E2300153	Tubbysub-D, ready-to-use system with UV-opaque tray	System
E2300154	Tubbysub-D, ready-to-use system with UV-transparent tray	System
E2302051	Cathode (black) and anode (red) electrode plates with 2 mm male connectors	Set
E2302052	Cathode (black) and anode (red) electrode plates with 4 mm male connectors	Set
E2103103	UV-opaque tray [3 (w) x 10 (l) cm]	Piece
E2103104	UV-transparent tray [3 (w) x 10 (l) cm]	Piece
E2203101	UV-opaque tray [7 (w) x 10 (l) cm]	Piece
E2203102	UV-transparent tray [7 (w) x 10 (l) cm]	Piece
E2303105	UV-opaque tray [15 (w) x 10 (l) cm]	Piece
E2303106	UV-transparent tray [15 (w) x 10 (l) cm]	Piece
E2110042	Comb 1.5 mm, PMMA, 4 well for 3 cm wide gel	Piece
E2210082	Comb 1.5 mm, PMMA, 8 well for 7 cm wide gel	Piece
E2310152	Comb 1.5 mm, PMMA, 15 well for 15 cm wide gel	Piece
E2310202	Comb 1.5 mm, PMMA, 20 well for 15 cm wide gel	Piece

**UV-transilluminators and its accessories**

E3161002	Gloworm-2, ready-to-use system	System
E3161004	Gloworm-4, ready-to-use system	System
E3163092	UVA tubes for Gloworm-2 (2 No.)	Set
E3163094	UVA tubes for Gloworm-4 (4 No.)	Set
E3171500	Compact trapezoid dark viewing hood (for window size 10 x 10 cm), height 15 cm with detachable binocular chromafilter eyepiece for GLOWORM-2/4	Unit
E3181913	Detachable binocular chromafilter eyepiece for trapezoid dark viewing hood	Piece

**Gel Documentation system**

E3561000	Ecodoc: gel documentation system.	System
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**Power supply**

E4100025	Electravolt: Power supply with five fixed voltage outputs of 80, 110, 140, 170, 200	System
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**Labware**

E5101105	Stand for micropipettes	Piece
E5202106	Micro-test tube stand	Unit
E5303810	Tip & tube discard container	Unit
E5402078	Microbial chemotaxis chamber	Piece
E6130257	Gel-sandwich opener	Piece
E6236182	Agarose dispenser	Piece
E6305150	Gel-slicer, breakage resistant, 6.5 (w) x 15 (l) cm	Piece
E6640122	Electrical cords with male & female (2 mm) connectors designed for user safety	Piece
E6640124	Electrical cords with male & female (4 mm) connectors designed for user safety	Piece
E6720167	Gradient mixer	Piece
E6941219	Penta-legged levelling table	Piece