

# EcoSep

*Economic Separations*

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

Horizontal Electrophoresis Apparatus

Vertical Electrophoresis Apparatus

Electroblotting Apparatus

Gel-Documentation

Power Supplies

Micropipettes

Minipipettes

pH Meters

Horizontal Electrophoresis  
Product Catalog



**ECONOMIC RANGE  
HORIZONTAL GEL APPARATUS  
SALIENT FEATURES**



**Leak-proof**

- No buffer leakage through plastic joints as sticking is done with special glues
- Cracking of plastic minimized as high quality plastic tolerates short exposure to cleaning reagents used in RNA analysis

**Error Minimization**

- Closely spaced wells do not break as comb-stand will not move sideways during comb removal
- Samples migrate in right direction due to uni-directional migration feature and colour coding

**Rugged**

- Electrodes do not break as they are thick and platinum is >99.9% pure
- No electrolytic corrosion of male connector as base is resin filled
- Plastic screws that do not corrode over long usage times

**Economical**

- Run larger number of samples using multiple combs per tray
- Can be run at higher voltages for quicker runs and hence faster turn-around times
- Saves reagent & operator cost as leakage and errors are prevented

**Good Resolution**

- UV-transparent trays have more than 95% UV-transparency and gives enhanced sensitivity of DNA detection
- Improved band resolution as wells can be cast near the starting edge for longer running length

**ECONOMIC RANGE**  
**HORIZONTAL GEL APPARATUS**  
**SELECTION GUIDE**

Model	Gel size Width x Length (in cm)	No. of wells/ comb	Max. of samples at a time	Casting Stand	Tray transparency	Buffer requirement (mL)	Recommended power supply*
<b>SLIMSUB</b> E2100031	3 x 10	4	8	No	UV Opaque	100	Beacon Electravolt LightSaber Spark
<b>SLIMSUB</b> E2100032	3 x 10	4	8	Yes	UVT		
<b>ECOSUB</b> E2200071	7 x 10	8	16	No	UV Opaque	200	Beacon Electravolt LightSaber Spark
<b>ECOSUB</b> E2200072	7 x 10	8	16	Yes	UVT		
<b>MIDISUB</b> E2400101	10 x 10	15	30	No	UV Opaque	350	Beacon Spark
<b>MIDISUB</b> E2400102	10 x 10	15	30	Yes	UVT		
<b>TUBBYSUB</b> E2300151	15 x 10	15 / 20	30 / 40	No	UV Opaque	500	Beacon Spark
<b>TUBBYSUB</b> E2300152	15 x 10	15 / 20	30 / 40	Yes	UVT		
<b>HUNKYSUB</b> E2500201	20 x 20	30	120	No	UV Opaque	1500	Beacon Spark
<b>HUNKYSUB</b> E2500202	20 x 20	30	120	No	UVT		

No. of wells per comb is as per the standard comb available with the ready to use system. This number is an indicative number. The number of wells per comb can be customized to be more or less than this number.

\* - Power supply is not a part of the ready-to-use system

UVT - Transparent to UV light (Tray can be placed directly on UV source for viewing)

## SLIMSUB

*With UV opaque tray*

## SLIMSUB

*With UV transparent tray*



Slimsub

- ✓ **Uni-directional migration**
- ✓ **For DNA and protein separations**
- ✓ **Gel size: 3 (w) x 10 (l) cm**
- ✓ **No. of samples: [4\* - 6] x 2 combs**
- ✓ **Buffer requirement: 100 mL**

*\*with ready-to-use system*

### Features of this apparatus

#### **Economical**

- Run larger number of samples per gel
- Less buffer required by virtue of its compact design
- Saves reagent & operator cost as leakage & errors are prevented

#### **Rugged**

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

#### **Leak-Proof**

- No leakage as tank is a single molded piece (Slimsub, Ecosub)
- No leakage from plastic joints as bonding is done with special glues
- Leak-proof sealing our innovative casting stands

#### **Error Minimization**

- Comb removal design minimizes well separator breakage
- No migration of samples in wrong direction due to unidirectional feature
- Wells are properly formed as the combs sit levelled on the tray

### Ready-to-use system includes

1. Moulded tank fitted with removable electrodes and male connectors
2. UV-opaque for gel size 3 (w) x 10 (l) cm with slots for positioning two combs
3. UV-transparent for gel size 3 (w) x 10 (l) cm with slots for positioning two combs
4. Two PMMA combs (4 wells, 1.5 mm thick)
5. Lid
6. Gel casting stand for tray of width 3 cm length 10 cm
7. Electrical cords with male & female connectors designed for user safety (one pair)
8. Instruction manual

	E2100031	E2100032
1.	Y	Y
2.	Y	-
3.	-	Y
4.	Y	Y
5.	Y	Y
6.	-	Y
7.	Y	Y
8.	Y	Y

### Ordering description

**Slimsub (E2100031):** Horizontal apparatus with regular thickness electrodes, 2 mm male connectors, uni-directional migration & **UV-opaque tray**, Gel size 3 (w) x 10 (l) cm, two combs 1.5 mm, PMMA, 4 wells.

**Slimsub (E2100032):** Horizontal apparatus with regular thickness electrodes, 2 mm male connectors, uni-directional migration & **UV-transparent tray**, Gel size 3 (w) x 10 (l) cm, two combs 1.5 mm, PMMA, 4 wells and tape-free gel casting stand.

### **SUGGESTION**

Order along with Ready-to-use system

Extra trays (E2103103, E2103104),  
Extra combs (E2110042),  
Gel slicer (E6305150)

### Slimsub and its spares and accessories

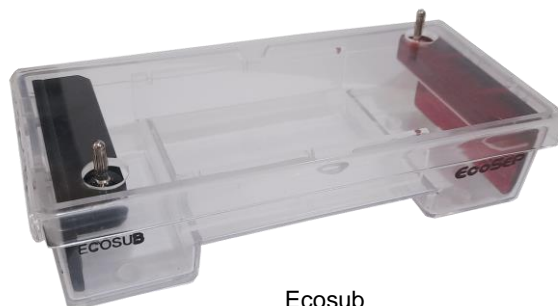
Item Description	Cat. No.	Unit
Slimsub, ready-to-use system, with UV-opaque tray	E2100031	System
Slimsub, ready-to-use system, with UV-transparent tray	E2100032	System
Cathode (black) and anode (red) electrode plates	E2101054	Set
UV-opaque tray [gel size: 3 (w) x 5 (l) cm]	E2103053	Piece
UV-transparent tray [gel size: 3 (w) x 5 (l) cm]	E2103054	Piece
UV-opaque tray [gel size: 3 (w) x 10 (l) cm]	E2103103	Piece
UV-transparent tray [gel size: 3 (w) x 10 (l) cm]	E2103104	Piece
Comb 1.5 mm, PMMA, 4 wells/ 28 mm	E2110042	Piece
Comb 1.5 mm, PMMA, 6 wells/ 28 mm	E2110062	Piece
Gel casting stand for tray max width 3 cm (w) and length 10 cm	E2150031	Piece

## ECOSUB

**With UV opaque tray**

## ECOSUB

**With UV transparent tray**



Ecosub

- ✓ **Uni-directional migration**
- ✓ **For DNA and protein separations**
- ✓ **Gel size: 7 (w) x 10 (l) cm**
- ✓ **No. of samples: [8\* - 10] x 2 combs**
- ✓ **Buffer requirement: 200 mL**

*\*with ready-to-use system*

### Features of this apparatus

#### Economical

- Run larger number of samples per gel
- Less buffer required by virtue of its compact design
- Saves reagent & operator cost as leakage & errors are prevented

#### Rugged

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

#### Leak-Proof

- No leakage as tank is a single molded piece (Slimsub, Ecosub)
- No leakage from plastic joints as bonding is done with special glues
- Leak-proof sealing our innovative casting stands

#### Error Minimization

- Comb removal design minimizes well separator breakage
- No migration of samples in wrong direction due to unidirectional feature
- Wells are properly formed as the combs sit levelled on the tray

### Ready-to-use system includes

1. Moulded tank fitted with removable electrodes and male connectors
2. UV-opaque tray for gel size 7 (w) x 10 (l) cm with slots for positioning two combs
3. UV-transparent tray for gel size 7 (w) x 10 (l) cm with slots for positioning two combs
4. Two PMMA combs (8 wells, 1.5 mm thick)
5. Lid
6. Gel casting stand for tray of width 7 cm length 10 cm
7. Electrical cords with male & female connectors designed for user safety (one pair)
8. Instruction manual

	E2200071	E2200072
1.	Y	Y
2.	Y	-
3.	-	Y
4.	Y	Y
5.	Y	Y
6.	-	Y
7.	Y	Y
8.	Y	Y

### Ordering description

**Ecosub (E2200071):** Horizontal apparatus with regular thickness electrodes, 2 mm male connectors, uni-directional migration & **UV-opaque tray**, Gel size 7 (w) x 10 (l) cm, two combs 1.5 mm, PMMA, 8 wells.

**Ecosub (E2200072):** Horizontal apparatus with regular thickness electrodes, 2 mm male connectors, uni-directional migration & **UV-transparent tray**, Gel size 7 (w) x 10 (l) cm, two combs 1.5 mm, PMMA, 8 wells and tape-free gel casting stand..

### **SUGGESTION**

Order along with Ready-to-use system

Extra trays (E2203101,  
E2203102, E2203103, E2203104),  
Extra combs (E2210082, E2110042),  
Gel slicer (E6305150)

### Ecosub and its spares and accessories

Item Description	Cat. No.	Unit
Ecosub, ready-to-use system, with UV-opaque tray	E2200071	System
Ecosub, ready-to-use system, with UV-transparent tray	E2200072	System
Cathode (black) and anode (red) electrode plates with 4 mm male connectors	E2201054	Set
UV-opaque tray [gel size: 7 (w) x 5 (l) cm]	E2203051	Piece
UV-transparent tray [gel size: 7 (w) x 5 (l) cm]	E2203052	Piece
UV-opaque tray [gel size: 7 (w) x 10 (l) cm]	E2203101	Piece
UV-transparent tray [gel size: 7 (w) x 10 (l) cm]	E2203102	Piece
Comb 1.5 mm, PMMA, 8 wells/ 68 mm	E2210082	Piece
Comb 1.5 mm, PMMA, 10 wells/ 68 mm	E2210102	Piece
Gel casting stand for tray max width 7 cm (w) and length 10 cm	E2250071	Piece

## MIDISUB

*With UV opaque tray*

## MIDISUB

*With UV transparent tray*

- ✓ **Uni-directional migration**
- ✓ **For DNA and protein separations**
- ✓ **Gel size: 10 (w) x 10 (l) cm**
- ✓ **No. of samples: [15\* - 20] x 2 combs**
- ✓ **Buffer requirement: 350 mL**

*\*with ready-to-use system*



Midisub

### Features of this apparatus

#### Economical

- Run larger number of samples per gel
- Less buffer required by virtue of its compact design
- Saves reagent & operator cost as leakage & errors are prevented

#### Rugged

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

#### Leak-Proof

- No leakage as tank is a single molded piece (Slimsub, Ecosub)
- No leakage from plastic joints as bonding is done with special glues
- Leak-proof sealing our innovative casting stands

#### Error Minimization

- Comb removal design minimizes well separator breakage
- No migration of samples in wrong direction due to unidirectional feature
- Wells are properly formed as the combs sit levelled on the tray

### Ready-to-use system includes

	E2400101	E2400102
1. Moulded tank fitted with removable electrodes and male connectors	Y	Y
2. UV-opaque tray for gel size 10 (w) x 10 (l) cm with slots for positioning two combs	Y	-
3. UV-transparent tray for gel size 10 (w) x 10 (l) cm with slots for positioning two combs	-	Y
4. Two PMMA combs (15 wells, 1.5 mm thick)	Y	Y
5. Lid	Y	Y
6. Gel casting stand for tray of width 3 cm length 10 cm	-	Y
7. Electrical cords with male & female connectors designed for user safety (one pair)	Y	Y
8. Instruction manual	Y	Y

### Ordering description

**Midisub (E2400101):** Ready-to-use system with **UV-opaque tray**, apparatus with male connectors, uni-directional migration, removable electrodes.

Tray for gel size 10 (w) x 10 (l) cm, two combs (1.5 mm, PMMA, 15 wells).

**Midisub (E2400102):** Ready-to-use system with **UV-transparent tray**, apparatus with male connectors, uni-directional migration, removable electrodes.

Tray for gel size 10 (w) x 10 (l) cm, 1 Tray for gel size 3 (w) x 10 (l),

Two combs (1.5 mm, PMMA, 15 wells), 2 combs (1.5 mm, PMMA, 15 wells),

with tape-free gel casting stand.

#### **SUGGESTION**

Order along with Ready-to-use system

Extra trays (E2403101, E2403102),  
Extra combs (E2410152),  
Gel slicer (E6305150)

### Midisub and its spares and accessories

Item Description	Cat. No.	Unit
Midisub, ready-to-use system, with UV-opaque tray	E2400101	System
Midisub, ready-to-use system, with UV-transparent tray	E2400102	System
Cathode (black) and anode (red) electrode plates with 4 mm male connectors	E2401554	Set
UV-opaque tray [gel size: 10 (w) x 5 (l) cm]	E2403051	Piece
UV-transparent tray [gel size: 10 (w) x 5 (l) cm]	E2403052	Piece
UV-opaque tray [gel size: 10 (w) x 10 (l) cm]	E2403101	Piece
UV-transparent tray [gel size: 10 (w) x 10 (l) cm]	E2403102	Piece
Comb 1.5 mm, PMMA, 12 wells	E2410122	Piece
Comb 1.5 mm, PMMA, 15 wells	E2410152	Piece
Gel casting stand for tray max width 10 cm (w) and length 10 cm	E2450101	Piece

## TUBBYSUB

*With UV opaque tray*

## TUBBYSUB

*With UV transparent tray*

- ✓ **Uni-directional migration**
- ✓ **For DNA and protein separations**
- ✓ **Gel size: 15 (w) x 10 (l) cm**
- ✓ **No. of samples: [15\* - 25] x 2 combs**
- ✓ **Buffer requirement: 500 mL**

*\*with ready-to-use system*



Tubbysub

### Features of this apparatus

#### Economical

- Run larger number of samples per gel
- Less buffer required by virtue of its compact design
- Saves reagent & operator cost as leakage & errors are prevented

#### Rugged

- Electrodes do not break out pit as they are protected and the platinum is >99.9% pure
- Durable PMMA combs
- No electrolytic corrosion of male connector as base is resin filled

#### Leak-Proof

- No leakage as tank is a single molded piece (Slimsub, Ecosub)
- No leakage from plastic joints as bonding is done with special glues
- Leak-proof sealing our innovative casting stands

#### Error Minimization

- Comb removal design minimizes well separator breakage
- No migration of samples in wrong direction due to unidirectional feature
- Wells are properly formed as the combs sit levelled on the tray

### Ready-to-use system includes

1. Tank fitted with removable electrodes and male connectors
2. UV-opaque for gel size 15 (w) x 10 (l) cm with slots for positioning two combs
3. UV-transparent for gel size 15 (w) x 10 (l) cm with slots for positioning two combs
4. Two PMMA combs (20 wells, 1.5 mm thick)
5. Lid
6. Gel casting stand for tray of width 7 cm length 10 cm
7. Electrical cords with male & female connectors designed for user safety (one pair)
8. Instruction manual

	E2300151	E2300152
1.	Y	Y
2.	Y	
3.		Y
4.	Y	Y
5.	Y	Y
6.		Y
7.	Y	Y
8.	Y	Y

### Ordering description

**Tubbysub (E2300151):** Ready-to-use system with **UV-opaque tray**, apparatus with male connectors, uni-directional migration, removable electrodes.

Tray for gel size 15 (w) x 10 (l) cm and Comb (1.5 mm, PMMA, 20 wells)

**Tubbysub (E2300152):** Ready-to-use system with **UV-transparent tray**, apparatus with male connectors, uni-directional migration, removable electrodes.

Tray for gel size 15 (w) x 10 (l) cm and Comb (1.5 mm, PMMA, 20 wells), with tape-free gel casting stand.

### **SUGGESTION**

Order along with Ready-to-use system

Extra trays (E2303055, E2303056, E2303105, E2303106),  
Extra combs (E2310152, E2310202),  
Gel slicer (E6305150)

### Tubbysub and its spares and accessories

Item Description	Cat. No.	Unit
Tubbysub, ready-to-use system, with UV-opaque tray	E2300151	System
Tubbysub, ready-to-use system, with UV-transparent tray, with tape-free casting stand	E2300152	System
Cathode (black) and anode (red) electrode plates with 4 mm male connectors	E2301554	Set
UV-opaque tray [gel size: 15 (w) x 5 (l) cm]	E2303055	Piece
UV-transparent tray [gel size: 15 (w) x 5 (l) cm]	E2303056	Piece
UV-opaque tray [gel size: 15 (w) x 10 (l) cm]	E2303105	Piece
UV-transparent tray [gel size: 15 (w) x 10 (l) cm]	E2303106	Piece
Comb, 1.5 mm, PMMA, 15 wells	E2310152	Piece
Comb, 1.5 mm, PMMA, 20 wells	E2310202	Piece
Gel casting stand for tray max width 15 cm (w) and length 10 cm	E2350151	Piece

## HUNKYSUB

*With UV opaque tray*

## HUNKYSUB

*With UV transparent tray*



Hunkysub

- ✓ **Uni-directional migration**
- ✓ **For DNA and protein separations**
- ✓ **Gel size: 20 (w) x 20 (l) cm**
- ✓ **No. of samples: [30\* - 45] x 4 combs**
- ✓ **Buffer requirement: 1500 mL**

*\*with ready-to-use system*

### Features of this apparatus

#### Economical

- Run larger number of samples per gel
- Less buffer required by virtue of its compact design
- Saves reagent & operator cost as leakage & errors are prevented

#### Rugged

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

#### Leak-Proof

- No leakage from plastic joints as bonding is done with special glues
- Leak-proof sealing of our innovative casting stands makes sure there is no gel leakage while casting

#### Error Minimization

- Comb design minimizes well separator breakage
- No migration of samples in wrong direction due to unidirectional feature
- Wells are properly formed as the combs sit levelled on the tray

### Ready-to-use system includes

1. Tank fitted with removable electrodes and male connectors
2. UV-opaque for gel size 20 (w) x 20 (l) cm with slots for positioning two combs
3. UV-transparent for gel size 20 (w) x 20 (l) cm with slots for positioning two combs
4. Two PMMA combs (30 wells, 1.5 mm thick)
5. Lid
6. Gel casting stand for tray of width 20 cm length 20 cm
7. Electrical cords with male & female connectors designed for user safety (one pair)
8. Instruction manual

	E2500201	E2500202
	Y	Y
	Y	-
	-	Y
	Y	Y
	Y	Y
	-	Y
	Y	Y
	Y	Y

**Ordering description**

**Hunkysub (E2500201):** Ready-to-use system with **UV-opaque tray**, apparatus with male connectors, uni-directional migration, removable electrodes.  
Tray for gel size 20 (w) x 20 (l) cm and Comb (1.5 mm, PMMA, 30 wells)

**Hunkysub (E2500202):** Ready-to-use system with **UV-transparent tray**, apparatus with male connectors, uni-directional migration, removable electrodes.  
Tray for gel size 20 (w) x 20 (l) cm and Comb (1.5 mm, PMMA, 30 wells), with tape-free gel casting stand.

**SUGGESTION**

Order along with Ready-to-use system

Extra trays (E2503055, E2503056, E2503105, E2503106),  
Extra combs (E2510252, E2510402),  
Gel slicer (E6305150)

**Hunkysub and its spares and accessories**

Item Description	Cat. No.	Unit
Hunkysub, ready-to-use system, with UV-opaque tray	E2500201	System
Hunkysub, ready-to-use system, with UV-transparent tray, with tape-free casting stand	E2500202	System
Cathode (black) and anode (red) electrode plates with 4 mm male connectors	E2501554	Set
UV-opaque tray [gel size: 20 (w) x 5 (l) cm]	E2503055	Piece
UV-transparent tray [gel size: 20 (w) x 5 (l) cm]	E2503056	Piece
UV-opaque tray [gel size: 20 (w) x 10 (l) cm]	E2503105	Piece
UV-transparent tray [gel size: 20 (w) x 10 (l) cm]	E2503106	Piece
UV-opaque tray [gel size: 20 (w) x 15 (l) cm]	E2503155	Piece
UV-transparent tray [gel size: 20 (w) x 15 (l) cm]	E2503156	Piece
UV-opaque tray [gel size: 20 (w) x 20 (l) cm]	E2503205	Piece
UV-transparent tray [gel size: 20 (w) x 20 (l) cm]	E2503206	Piece
Comb, 1.5 mm, PMMA, 25 wells	E2510252	Piece
Comb, 1.5 mm, PMMA, 30 wells	E2510302	Piece
Comb, 1.5 mm, PMMA, 40 wells	E2510402	Piece
Comb, 1.5 mm, PMMA, 45 wells	E2510452	Piece
Gel casting stand for tray max width 20 cm (w) and length 20 cm	E2550151	Piece

# ECOSEP

*Economic Separations*

## Product Catalog

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*Vertical Electrophoresis Apparatus*

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*pH Meters*

**Contact us at**

***[sales@techresource.in](mailto:sales@techresource.in)***

**Website**

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

*Reg. Office Address:*

*TechResource,*

*188 Nagdevi Street,*

*2<sup>nd</sup> Floor,*

*Mumbai 400 003.*