

EcoSep

Economic Separations



www.ecosep.in

Horizontal Electrophoresis Apparatus

Vertical Electrophoresis Apparatus

Electroblotting Apparatus

Gel-Documentation

Power Supplies

Micropipettes

Minipipettes

pH Meters

Vertical Electrophoresis Product Catalog

EcoSep product overview

1. TechResource manufactures and markets products under the brand name **EcoSep** and we issue a *Manufacturing Certificate* to facilitate purchasing formalities.
2. We offer a **One-Year Warranty** against manufacturing defects and such repairs will be done **free of cost** during the warranty period. The product can be shipped to TechResource office in Mumbai where it will be attended to and returned to the user.
3. Systems marked '**Ready-to-use**' include all essential components required to use the apparatus (Power supply not included). Spares and accessories are also available with us.
4. **Do not use chemicals that adversely react with acrylic (PMMA).**
5. Please visit the website www.ecosep.in or www.techresource.in for further details.
6. Enquiries may be sent to sales@techresource.in
7. Design and specifications of the apparatus can be changed from time to time to reflect improvements in design, manufacturing methods and the economical availability of inputs.

ORDERING INFORMATION, PAYMENT and SHIPPING TERMS

1. Make sure catalog numbers for ordered items are correct.
2. Prices are subject to change without notice.
3. Prices are for ex-sellers place. Freight is charged on actuals or on a TO-PAY basis. Products are shipped via a reliable courier service by surface transport.
4. Taxes & Levies applicable at the time of dispatch will be borne by the Client.
5. Quotations are valid for a period of 90 days.
6. 100 % Payment ON DELIVERY by Demand Draft, NEFT, or by crossed Account Payee cheque drawn on any nationalized bank in favor of TECHRESOURCE and payable at par at Mumbai.
7. Interest @ 15% per annum will be charged if payments are not received as per stipulated Terms of Payment.
8. Exemptions of taxes and levies can be availed ONLY if valid forms are submitted along with the order.
9. Products will be shipped only after receipt of the relevant shipping permits.

DISCLAIMER

1. TechResource is not bound to provide demonstrations and installations.
2. To and fro transportation cost for repairs is to be borne by the client when warranty is not applicable.
3. EcoSep products are designed and made for educational purposes and are to be used for the same. TechResource will accept no liabilities arising out of product misuse or abuse.

***ECONOMIC RANGE
VERTICAL GEL APPARATUS
SALIENT FEATURES***



Leak-proof

- No leakage of upper tank buffer as silicone gasket is tough & resilient
- No buffer leaks from plastic joints as sticking is done with special glues
- Leak-proof sealing using agarose in lower tank trough & slotted spacers

Error Minimization

- No slippage of gel sandwich due to in-situ gel casting
- No migration of samples in wrong direction due to unidirectional feature
- Straight wells as combs sit completely levelled on spacers

Rugged

- Breakage resistant parts such as spacers thick glass notched plate
- 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

Economical

- Very low amounts of buffer used
- Short and defined run times as gels can be run at constant current
- Can be run in the refrigerator due to its small size
- Saves reagent & operator cost as leakage and errors are prevented

**ECONOMIC RANGE
VERTICAL GEL APPARATUS
SELECTION GUIDE**

Model	No. of gels at a time	Gel size			No. of wells/ gel	Casting stand (for agar free sealing)	Buffer requirement (mL)	Recommended power supply*
		width (cm)	length (cm)	thickness (mm)				
SLIMPAGE E0100142	1	4	8.5	1.5	4	No	50	Beacon Electravolt LightSaber Spark
SLIMPAGE E0100144	1	4	8.5	1.5	4	Yes	50	
ECOPAGE E0200142	1	7	8.5	1.5	8	No	100	
ECOPAGE E0200144	1	7	8.5	1.5	8	Yes	100	
MIDIPAGE E0410142	1	10	10	1.5	12	No	250	Beacon Spark
TUBBYPAGE E0300142	1	14	16	1.5	13	No	700	

* - Power supply unit is not included in the ready to use system

SLIMPAGE

Gel size: 4 (w) x 8.5 (l) cm

- ✓ **Single sided model**
- ✓ **In-situ gel casting/ Casting stand**
- ✓ **Designed for optimum gel cooling**
- ✓ **No sample loss as uni-directional migration**

- ✓ **Gel thickness: 1.5 mm**
- ✓ **No. of wells: 4**
- ✓ **Buffer requirement: 50 mL**
- ✓ **10% SDS-PAGE run in 70 min**



Slimpage with casting stand (right)

Features of this apparatus

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 out 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

Ready-to-use system includes

1. Lower anodic tank fitted with male connector and electrodes
2. Cathodic electrode unit fitted with male connector & electrode
3. Resilient silicone gasket for cathodic electrode unit
4. Two notched and two rectangular glass plates
5. Four 1.5 mm thick, breakage resistant, rounded spacers
6. Two PMMA comb (1.5 mm thick, 4 wells, est. vol. 75 µL/well)
7. Set of clamps with screws
8. Gel-casting stand for single gel (One back plate, one front plate)
9. C shaped rubber gasket for single gel of 1.5 mm
10. Electrical cords with male & female connectors
11. Instruction manual

	E0100142	E0100144
	Y	Y
	Y	Y
	Y	Y
	Y	Y
	Y	Y
	Y	Y
	Y	Y
	-	Y
	-	Y
	Y	Y
	Y	Y

Ordering description

Slimpage (E0100142): Vertical electrophoresis single sided system of gel size 4 (w) x 8.5 (l) cm, 1.5 mm spacers, comb 1.5 mm. PMMA, 4 wells with male connectors, in situ gel casting, uni-directional migration.

Slimpage with Casting stand (E0100144): Vertical electrophoresis single sided system of gel size 4 (w) x 8.5 (l) cm, 1.5 mm spacers, comb 1.5 mm, PMMA, 4 wells with male connectors with agarose free casting stand, male connectors, casting stand with 'C' shaped gasket for agarose free gel casting, uni-directional migration.

SUGGESTION

Order along with Ready-to-use system

Gel casting stand (E0133075), Glass plate stand (E0135045), Gel-sandwich opener (E6130257), Gel slicer (E6305150)

Slimpage and its spares and accessories

Item Description	Cat. No.	Unit
Slimpage, ready-to-use system.	E0100142	System
Slimpage, ready-to-use system, with agarose-free casting stand	E0100144	System
Clamps with screws (one pair)	E0105085	Set
Screws for clamps and cathodic electrode unit	E0106148	Set
Silicone gasket for cathodic electrode unit	E0109304	Piece
Comb 1.5 mm thick, PMMA, 4 wells, 10 mm deep, est. vol. 75 μ L/well (one pair)	E0114042	Piece
Comb 1.5 mm thick, PMMA, 6 wells, 10 mm deep, est. vol. 65 μ L/well (one pair)	E0114062	Piece
Spacers, 1.5 mm thick, PMMA (one pair)	E0117852	Set
Notched and rectangular glass plate, 4 (w) x 8.5 (l) cm (one of each)	E0128082	Set
Notched and rectangular glass plate with bonded 1.5 mm spacers, 4 (w) x 8.5 (l) cm (one of each)	E0128083	Set
Gel-casting stand with binder clips	E0133075	Piece
Gel-casting stand with 'C' shaped rubber gasket for agarose free sealing	E0133077	System
C shaped rubber gasket for agarose free sealing	E0133078	Piece
Glass plate stand	E0135045	Piece

ECOPAGE

Gel size: 7 (w) x 8.5 (l) cm

- ✓ **Single sided model**
- ✓ **In-situ gel casting/ Casting stand**
- ✓ **Designed for optimum gel cooling**
- ✓ **No sample loss as uni-directional migration**

- ✓ **Gel thickness: 1.5 mm**
- ✓ **No. of wells: 8**
- ✓ **Buffer requirement: 100 mL**
- ✓ **10% SDS-PAGE run in 70 min**



Ecopage with casting stand (right)

Features of this apparatus

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

Ready-to-use system includes

	E0200142	E0200144
1. Lower anodic tank fitted with male connector and electrodes	Y	Y
2. Cathodic electrode unit fitted with male connector & electrode	Y	Y
3. Resilient silicone gasket for cathodic electrode unit	Y	Y
4. Two notched and two rectangular glass plates	Y	Y
5. Four 1.5 mm thick, breakage resistant, rounded spacers	Y	Y
6. Two PMMA comb (1.5 mm thick, 8 wells, est. vol. 75 µL/well)	Y	Y
7. Set of clamps with screws	Y	Y
8. Gel-casting stand for single gel (One back plate, one front plate)	-	Y
9. C shaped rubber gasket for single gel of 1.5 mm	-	Y
10. Electrical cords with male & female connectors	Y	Y
11. Instruction manual	Y	Y

Ordering description

Ecopage (E0200142): Vertical electrophoresis single sided system of gel size 7 (w) x 8.5 (l) cm, 1.5 mm spacers, comb 1.5 mm. PMMA, 8 wells with male connectors, in situ gel casting, uni-directional migration.

Ecopage with Casting stand (E0200144): Vertical electrophoresis single sided system of gel size 7 (w) x 8.5 (l) cm, 1.5 mm spacers, comb 1.5 mm, PMMA, 8 wells with male connectors with agarose free casting stand, male connectors, casting stand with 'C' shaped gasket for agarose free gel casting, uni-directional migration.

SUGGESTION

Order along with Ready-to-use system

Gel casting stand (E0233075), Glass plate stand (E0235065), Gel-sandwich opener (E6130257), Gel slicer (E6305150)

Ecopage and its spares and accessories

Item Description	Cat. No.	Unit
Ecopage, ready-to-use system.	E0200142	System
Ecopage, ready-to-use system, with agarose-free casting stand	E0200144	System
Clamps with screws (one pair)	E0205085	Set
Screws for clamps and cathodic electrode unit	E0206148	Set
Silicone gasket for cathodic electrode unit	E0209304	Piece
Comb 1.5 mm thick, PMMA, 8 wells, 10 mm deep, est. vol. 75 µL/well (one pair)	E0214082	Piece
Comb 1.5 mm thick, PMMA, 10 wells, 10 mm deep, est. vol. 75 µL/well (one pair)	E0214102	Piece
Spacers, 1.5 mm thick, PMMA (one pair)	E0217852	Set
Notched and rectangular glass plate, 7 (w) x 8.5 (l) cm (one of each)	E0228082	Set
Notched and rectangular glass plate, with bonded spacers, 7 (w) x 8.5 (l) cm (one of each)	E0228083	Set
Gel-casting stand with binder clips	E0233075	Piece
Gel-casting stand with 'C' shaped rubber gasket for agarose free sealing	E0233077	System
C shaped rubber gasket for agarose free sealing	E0233078	Piece
Glass plate stand	E0235065	Piece

MIDIPAGE

Gel size: 10 (w) x 10 (l) cm

- ✓ **Single sided model**
- ✓ **In-situ gel casting**
- ✓ **Designed for optimum gel cooling**
- ✓ **No sample loss as uni-directional migration**

- ✓ **Gel thickness: 1.5 mm**
- ✓ **No. of wells: 12**
- ✓ **Buffer requirement: 250 mL**
- ✓ **10% SDS-PAGE run in 85 mins**



Midipage

Features of this apparatus

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

Ready-to-use system includes

1. Lower anodic tank fitted with male connector and electrodes
2. Cathodic electrode unit fitted with male connector & electrode
3. Resilient silicone gasket for cathodic electrode unit
4. Two notched and two rectangular glass plates
5. Four 1.5 mm thick, breakage resistant, rounded spacers
6. Two PMMA comb (1.5 mm thick, 12 wells, est. vol. 75 µL/well)
7. Set of clamps with screws
8. Gel-casting stand for single gel (One back plate, one front plate)
9. C shaped rubber gasket for single gel of 1.5 mm
10. Electrical cords with male & female connectors
11. Instruction manual

E0400142

Y
Y
Y
Y
Y
Y
Y
-
-
Y
Y

Ordering description

Midipage (E0400142): Vertical electrophoresis single sided system of gel size 10 (w) x 10 (l) cm, 1.5 mm spacers, comb 1.5 mm. PMMA, 12 wells with male connectors, in situ gel casting, uni-directional migration.

SUGGESTION

Order along with Ready-to-use system

Gel casting stand (E0433075), Glass plate stand (E0435065), Gel-sandwich opener (E6130257), Gel slicer (E6305150)

Midipage and its spares and accessories

Item Description	Cat. No.	Unit
Midipage, ready-to-use system.	E0400142	System
Clamps with screws (one pair)	E0405100	Set
Screws for clamps and cathodic electrode unit	E0406148	Set
Silicone gasket for cathodic electrode unit	E0409304	Piece
Comb 1.5 mm thick, PMMA, 10 wells, 12 mm deep, est. vol. 75 uL/ well	E0414102	Piece
Comb 1.5 mm thick, PMMA, 12 wells, 12 mm deep, est. vol. 65 uL/ well	E0414122	Piece
Spacers, 1.5 mm thick, PMMA (one pair)	E0417102	Set
Notched and rectangular glass plate, 14 (w) x 11 (l) cm (one of each)	E0414112	Set
Notched and rectangular glass plate, with bonded spacers, 14 (w) x 11 (l) cm (one of each)	E0414112	Set
Gel-casting stand with binder clips	E0433075	Piece
Glass plate stand	E0435065	Piece

TUBBYPAGE

Gel size: 14 (w) x 16 (l) cm

- ✓ **Single sided model**
- ✓ **In-situ gel casting (Agarose sealing)**
- ✓ **Designed for optimum gel cooling**
- ✓ **No sample loss as uni-directional migration**

- ✓ **Gel thickness: 1.5 mm**
- ✓ **No. of samples: 13**
- ✓ **Buffer requirement: 700 mL**
- ✓ **10% SDS-PAGE run in 2 hr 30 mins**



Tubbypage

Features of this apparatus

Leak Proof

- Gaskets made of silicone are tough & resilient
- Buffer leaks from plastic joints prevented as sticking is done with specially manufactured glues
- Leak proof patent pending gel casting stand

Rugged

- Breakage proof Teflon combs, & fibre-glass notched plate
- Electrodes do not break as they are thick & purity > than 99.9%
- No corrosion due to resin filled male connectors

High Resolution

- Sharper bands because of thin glass plates & deep tank
- Good cooling as entire gel-sandwich is in contact with the buffer
- Low positioned electrodes stir buffer to cool gel

Error Minimization

- Migration of samples in wrong direction prevented due to unidirectional feature
- Wells formed straight as combs sit levelled with the spacers

Ready-to-use system includes

1. Lower anodic tank fitted with male connector and electrodes
2. Cathodic electrode unit fitted with male connector & electrode
3. Resilient silicone gasket for cathodic electrode unit
4. Two notched and two rectangular glass plates
5. Four 1.5 mm thick, breakage resistant, rounded spacers
6. Two PMMA comb (1.5 mm thick, 20 wells, est. vol. 75 µL/well)
7. Set of clamps with screws
8. Gel-casting stand for single gel (One back plate, one front plate)
9. C shaped rubber gasket for single gel of 1.5 mm
10. Electrical cords with male & female connectors
11. Instruction manual

E0300142

Y
Y
Y
Y
Y
Y
Y
-
-
Y
Y

Ordering description

Tubbypage (E0300142): Vertical electrophoresis single sided system of gel size 14 (w) x 16 (l) cm, 1.5 mm spacers, comb 1.5 mm. PMMA, 20 wells with male connectors, in situ gel casting, uni-directional migration.

SUGGESTION

Order along with Ready-to-use system

Gel casting stand (E0333075), Glass plate stand (E0335065), Gel-sandwich opener (E6130257), Gel slicer (E6305150)

Tubbypage and its spares and accessories

Item Description	Cat. No.	Unit
Tubbypage, ready-to-use system.	E0300142	System
Clamps with screws (one pair)	E0300585	Set
Screws for clamps and cathodic electrode unit	E0306148	Set
Silicone gasket for cathodic electrode unit	E0309304	Piece
Comb 1.5 mm thick, PMMA, 13 wells, 10 mm deep, est. vol. 140 uL/ well	E0314132	Piece
Comb 1.5 mm thick, PMMA, 20 wells, 10 mm deep, est. vol. 140 uL/ well	E0314202	Piece
Spacers, 1.5 mm thick, PMMA (one pair)	E0317852	Set
Notched and rectangular glass plate, 20 (w) x 16.5 (l) cm (one of each)	E0328082	Set
Gel-casting stand with binder clips	E0333075	Piece
Glass plate stand	E0335065	Piece

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