

**RESEARCHER RANGE**  
**ELECTRO BLOTTING APPARATUS**  
**SALIENT FEATURES**



**Leak-proof**

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

**Error Minimization**

- Samples migrate in right direction due to uni-directional migration feature and colour coding
- No wrong assembly of gel sandwich as engraved markings and unidirectional insertion prevent mistakes

**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
- Hardened plastic screws that do not break with extensive usage

**Economical**

- Less buffer required
- Short run times as efficiency is higher
- No cold room required as it can be run in a fridge due to small foot print.
- Saves reagent & operator cost as leakage and errors are prevented

**Efficiency of Transfer**

- High fidelity of transfer as large open surface area in cassette frame allows unhindered passage of current
- Short transfer times as low resistance to passage of current due to cassette frame design and sponge quality

**Versatile**

- Besides western blotting, Southern and northern transfer of bio-molecules from fragile (agarose) gels possible as innovative cassette design prevents crushing of gels

## **RESEARCHER RANGE ELECTRO BLOTTING APPARATUS SELECTION GUIDE**

Model	Description	Cassettes	No. of Gels transferred at a time	Gel Size (w) x (l) cm	Buffer required	Recommended power supply
<b>MICROBLOT</b>	For western blotting	1	2	8 x 6	450 mL	Electragel-100 300V,100mA
<b>MICROBLOT-T</b>		2	4		700 mL	
<b>MIDIBLOT</b>		1	2	8.5 x 9	800 mL	Electracomet 200V,500mA
<b>MIDIBLOT-T</b>		2	4		1300 mL	
<b>TECHNOBLOT-O</b>	For western, northern and Southern blotting	1	2	10 x 10.5	1500 mL	
<b>TECHNOBLOT</b>		2	4		1900 mL	
<b>TECHNOBLOT-F</b>		4	8		3000 mL	

Refer to the website for the complete table

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

User defined sizes can be custom fabricated

## MICROBLOT

*Single cassette*

## MICROBLOT-T

*Dual cassette*



Microblot

- ✓ **Gel Size: 8 (w) x 6 (l) cm**
- ✓ **For western blotting**
- ✓ **Uni-directional insertable cassettes and electrode plates**
- ✓ **Uni-directional migration**
- ✓ **Transfer multiple gels at a time**
- ✓ **Buffer capacity: Microblot - 450 mL**  
**Microblot-T - 700 mL**

### Features of this apparatus

#### Efficiency of Transfer

- Hi-fidelity of transfer as large open surface area of cassette allows unhindered passage of current
- Short transfer times as low resistance to passage of current due to cassette frame design and sponge quality

#### Rugged

- No buffer leakage through plastic joints as bonding is done with special glues
- 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

#### Error Minimization

- Samples do not migrate in the wrong direction due to uni-directional migration feature
- Wrong assembly of gel sandwich deterred, as engraved markings and unidirectional insertion prevent mistakes

#### Economical

- Less buffer required
- Short run times as better efficiency of transfer current
- No cold room required as it can be run in the refrigerator due to its small footprint
- Saves reagent & operator cost as leakage and errors are prevented

### Ready-to-use system includes

1. Tank
2. Lid
3. Gel & membrane holding cassette with guide pins, stoppers and locking nuts insertable in only one manner
4. Sponge pads
5. Cathode plate insertable in only one manner, with electrodes for uni-directional migration, 4 mm male connectors  
Anode plate insertable in only one manner, with electrodes for uni-directional migration, 4 mm male connectors
6. Electrical cords with male (4 mm) and female (4 mm) connectors designed for user safety
7. Instruction manual

Microblot  
15-00000

1 pcs.  
1 pcs.  
1 set

2 pcs.  
1 pcs.

1 pcs.

1 pair

1 pcs.

Microblot-T  
15-00001

1 pcs.  
1 pcs.  
2 sets

4 pcs.  
1 pcs.

1 pcs.

1 pair

1 pcs.

### Ordering description

**Microblot (15-00000):** Single cassette western blotting system, can accommodate two gels (gel size 8 (w) x 6 (l) cm), with uni-directional migration and constructed for cassette and electrode plate insertion in the correct direction only.

**Microblot-T (15-00001):** Dual cassette western blotting system, can accommodate four gels (gel size 8 (w) x 6 (l) cm), with uni-directional migration and constructed for cassette and electrode plate insertion in the correct direction only.

### Microblot and its spares and accessories

Item Description	Cat. No.	Unit
Microblot, ready-to-use system	15-00000	System
Microblot-T, ready-to-use system	15-00001	System
Cathode and anode plates with male connectors (4 mm), uni-directional insertion and migration feature	15-03084	Set
Cathode and anode plates with male connectors (2 mm), uni-directional insertion and migration feature	15-03083	Discontinued
Gel membrane-holding cassette for transfer of <i>anions</i> with guide-pins, stoppers and locking-nuts	15-08504	Set
Sponge pads (four)	15-10095	Packet
Guide pins with stoppers and locking nuts (four of each)	15-21304	Packet
Electrical cords with female (4 mm) & male (4 mm) connectors designed for user safety	66-40124	Pair
Electrical cords with female (2 mm) & male connectors designed for user safety	66-40122	Discontinued
Mircoblot tank. Replacement part for single cassette western blotting system.	15-01000	Piece
Mircoblot-T tank. Replacement part for dual cassette western blotting system.	15-01001	Piece

## MIDIBLOT

*Single cassette*

## MIDIBLOT-T

*Dual cassette*



Midiblot

- ✓ **Gel size: 9 (w) x 10 (l) cm**
- ✓ **For western blotting**
- ✓ **Uni-directional insertable cassettes and electrode plates**
- ✓ **Uni-directional migration**
- ✓ **Transfer one or two gels at a time**
- ✓ **Buffer capacity: Midiblot - 800 mL**  
**Midiblot-T - 1300 mL**

### Features of this apparatus

#### Efficiency of Transfer

- Hi-fidelity of transfer as large open surface area of cassette allows unhindered passage of current
- Short transfer times as low resistance to passage of current due to cassette frame design and sponge quality

#### Rugged

- No buffer leakage through plastic joints as bonding is done with special glues
- 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

#### Error Minimization

- Samples do not migrate in the wrong direction due to uni-directional migration feature
- Wrong assembly of gel sandwich deterred as engraved markings and unidirectional insertion prevent mistakes

#### Economical

- Less buffer required
- Short run times as better efficiency of transfer current
- No cold room required as it can be run in the refrigerator due to its small footprint
- Saves reagent & operator cost as leakage and errors are prevented

### Ready-to-use system includes

1. Tank
2. Lid
3. Gel & membrane holding cassette with guide pins, stoppers and locking nuts insertable in only one manner
4. Sponge pads
5. Cathode plate insertable in only one manner, with electrodes for uni-directional migration, 4 mm male connectors  
Anode plate insertable in only one manner, with electrodes for uni-directional migration, 4 mm male connectors
6. Electrical cords with male (4 mm) and female (4 mm) connectors designed for user safety
7. Instruction manual

Midiblot	Midiblot-T
16-00000	16-00001
1 pcs.	1 pcs.
1 pcs.	1 pcs.
1 set	2 sets
2 pcs.	4 pcs.
1 pcs.	1 pcs.
1 pcs.	1 pcs.
1 pair	1 pair
1 pcs.	1 pcs.

### Ordering description

**Midiblot (16-00000):** Single cassette western blotting system, can accommodate two gels (gel size 8.5 (w) x 9 (l) cm), with uni-directional migration and constructed for cassette and electrode plate insertion in the correct direction only

**Midiblot-T (16-00001):** Dual cassette western blotting system, can accommodate four gels (gel size 8.5 (w) x 9 (l) cm), with uni-directional migration and constructed for cassette and electrode plate insertion in the correct direction only

### **Midiblot and its spares and accessories**

Item Description	Cat. No.	Unit
Midiblot, ready-to-use system	16-00000	System
Midiblot-T, ready-to-use system	16-00001	System
Cathode and anode plates with male connectors (2 mm)	16-03083	Set
Gel membrane-holding cassette for transfer of <i>anions</i> with guide-pins, stoppers and locking-nuts	16-08504	Set
Sponge pads (four)	16-10095	Packet
Guide pins with stoppers and locking nuts (two of each)	16-21304	Packet
Electrical cords with female (4 mm) & male (4 mm) connectors designed for user safety	66-40122	Pair
Midiblot tank. Replacement part for single cassette western blotting system	16-01000	Piece
Midiblot-T tank. Replacement part for single cassette western blotting system	16-01001	Piece

## TECHNOBLOT-O

**Gel size: 10 (w) x 10.5 (l) cm**

**For western, northern and Southern blotting**

**Single cassette**

## TECHNOBLOT

**Gel size: 10 (w) x 10.5 (l) cm**

**For western, northern and Southern blotting**

**Dual cassette**

## TECHNOBLOT-F

**Gel size: 10 (w) x 10.5 (l) cm**

**For western, northern and Southern blotting**

**Four cassettes**



Technoblot

- ✓ **Uni-directional insertable cassettes and electrode plates**
- ✓ **Uni-directional migration**
- ✓ **Transfer multiple gels at a time**
- ✓ **Buffer capacity: Technoblot O - 1500 mL**  
                                     **Technoblot - 1900 mL**  
                                     **Technoblot-F - 3500 mL**

### Features of this apparatus

#### Efficiency of Transfer

- Hi-fidelity of transfer as large open surface area of cassette allows unhindered passage of current
- Short transfer times as low resistance to passage of current due to cassette frame design and sponge quality

#### Rugged

- No buffer leakage through plastic joints as bonding is done with special glues
- 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

#### Error Minimization

- Samples do not migrate in the wrong direction due to uni-directional migration feature
- Wrong assembly of gel sandwich deterred as engraved markings and unidirectional insertion prevent mistakes

#### Versatile

- Besides western blotting, even Southern & northern transfer of bio-molecules from fragile (agarose) gels possible as innovative cassette design prevents crushing of gels

#### Economical

- Less buffer required
- Short run times as better efficiency of transfer current
- No cold room required as it can be run in the refrigerator due to its small footprint
- Saves reagent & operator cost as leakage and errors are prevented

### Ready-to-use system includes

1. Tank
2. Lid
3. Gel & membrane holding cassette with guide pins, stoppers and locking nuts insertable in only one manner
4. Sponge pads
5. Push screws for locking cassettes
6. Cathode & anode plates insertable in only one manner, with electrodes, uni-directional migration & gold plated male connectors.
7. Electrical cords with gold plated male & female connectors for user safety (one pair)
8. Instruction manual

13.00001	13.00000	13.00004
Y	Y	Y
Y	Y	Y
Y (1 pc.)	Y (2 pcs.)	Y (4 pcs.)
Y (2 pcs.)	Y (4 pcs.)	Y (8 pcs.)
Y (4 pcs.)	Y (8 pcs.)	Y (16 pcs.)
Y	Y	Y
Y	Y	Y
Y	Y	Y

### Ordering description

**Technoblot-O (13-00001):** Single cassette western blotting system, can accommodate one/ two gels (gel size 10 (w) x 10.5 (l) cm), with uni-directional migration and constructed for cassette and electrode plate insertion in the correct direction only

**Technoblot (13-00000):** Dual cassette western blotting system, can accommodate two/ four gels (gel size 10 (w) x 10.5 (l) cm), with uni-directional migration and constructed for cassette and electrode plate insertion in the correct direction only

**Technoblot-F (13-00004):** Four cassette western blotting system, can accommodate four/ eight gels (gel size 10 (w) x 10.5 (l) cm), with uni-directional migration and constructed for cassette and electrode plate insertion in the correct direction only

### Technoblot and its spares and accessories

Item Description	Cat. No.	Unit
Technoblot-O, ready-to-use system	13-00001	System
Technoblot, ready-to-use system	13-00000	System
Technoblot-F, ready-to-use system	13-00004	System
Cathode and anode plates with male connectors for uni-directional insertion and migration feature	13-03115	Set
Cathode plate with male connector for uni-directional insertion and migration feature	13-04115	Piece
Anode plate with male connector for uni-directional insertion and migration feature	13-05115	Piece
Gel membrane-holding cassette for transfer of <i>anions</i> with push-nut locking adapters and guide pins	13-06734	Piece
Gel membrane-holding cassette for transfer of <i>cations</i> with push-nut locking adapters and guide pins	13-07734	Piece
Sponge pads (six)	13-10115	Packet
Push screws (eight)	13-20210	Packet
Guide pins with stoppers and locking nuts (eight of each)	13-21304	Packet
Buffer saver (25 mm thick)	13-37121	Piece
Electrical cords with gold plated male & female connectors designed for user safety	66-41124	Pair
Penta-legged levelling table (21 x 21 cm) with spirit level	69-41219	Set
Technoblot-O tank. Replacement part for single cassette blotting system, constructed for cassette and electrode plate insertion only in the correct direction	13-01001	Piece
Technoblot tank. Replacement part for dual cassette blotting system, constructed for cassette and electrode plate insertion only in the correct direction	13-01000	Piece
Technoblot-F tank. Replacement part for four cassette blotting system, constructed for cassette and electrode plate insertion only in the correct direction	13-01004	Piece