

## **RESEARCHER RANGE**

### ***HORIZONTAL GEL APPARATUS SPECIAL FEATURES***

#### **LEAK-PROOF**

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

*Crazing 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 withdrawal*

*Samples migrate in right direction due to uni-directional migration feature and colour coding*

*Sample migration is always straight as comb-stand & tray are aligned & locked in place*

#### **ECONOMICAL**

*Run greater number of samples using two/four combs per tray*

*Can be run higher voltages*

*Saves reagent & operator cost as leakage and errors are prevented*

#### **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*

*Metal screws do not break with extensive usage*

#### **SENSITIVITY & RESOLUTION**

*UV-transparent tray gives enhanced sensitivity of DNA detection*

*Improved band resolution as wells can be cast near the starting edge for longer running length*

#### **CONVENIENT**

*Multichannel micropipette compatible combs available*

*Cast lower percentage gels as comb height can be adjusted*

*Gels do not slip out in UV-transparent gel-gripping tray*

## RESEARCHER RANGE

### HORIZONTAL GEL APPARATUS SELECTION GUIDE

All our Ready-to-use systems:

- ✓ Have uni-directional migration.
- ✓ UV transparent trays

Model	Description	Gel size (w x l) cm	No. of combs / gel	No of wells/ comb	Max. samples at a time	Running length (cm)	Buffer requirement	Recommended power supply
<b>SLEEKSUB/ SLEEKSUB-R</b>	DNA & protein/ RNA, DNA & protein electrophoresis	7 x 5	1	10	10	4.5	270 mL	ELECTRAGEL - 100
				15	15			
		7 x 10	2	10	20	4.5		
				15	30			
		7 x 15	2	10	20	7		
				15	30			
<b>GELMARINER/ GELMARINER-R/ GELMARINER-RC</b>	DNA & protein/ RNA, DNA & protein electrophoresis	10 x 10	2	15	30	4.5	400 mL	ELECTRAGEL - 100
				20	40			
		10 x 15	2	15	30	7		
				20	40			
		10 x 20	3	15	45	6.2		
				20	60			
<b>GREYHOUND/ GREYHOUND-R/ GREYHOUND-RC</b>	DNA & protein/ RNA, DNA & protein electrophoresis	15 x 10	2	24	48	4.5	1000 mL	ELECTRAGEL - 100
				32 <sup>∞</sup>	64			
		15 x 20	4	24	96	4.7		
				32 <sup>∞</sup>	128			
		15 x 25	4	24	96	6		
				32 <sup>∞</sup>	128			
<b>GREYWHALE-R/ GREYWHALE-RC</b>	DNA & protein/ RNA, DNA & protein electrophoresis	30 x 10	1	54	54	9.5	2200 mL	ELECTRAPAGE - 200
				64 <sup>∞</sup>	64			
		30 x 15	2	54	108	7		
				64 <sup>∞</sup>	128			
		30 x 20	4	54	216	4.7		
				64 <sup>∞</sup>	256			
30 x 30	5	54	270	5.8				
		64 <sup>∞</sup>	320					

Model	Description	Gel size (w x l) cm	No. of combs / gel	No of wells/ comb	Max. samples at a time	Running length (cm)	Buffer requirement	Recommended power supply
<b>KOMET</b>	For single cell comet assay & DNA electrophoresis	Tray (size 21 x 22)	4	30	16 slides/ 120	5.2	850 mL	ELECTRACOMET
<b>BI-STRIP</b>	For protein (slides/ CA strip)	16 x 8	-	-	16 on strips / 6 slides	7.5	400 mL	ELECTRAGEL - 100

\*Power supply unit not included.

<sup>∞</sup> Teeth spacing of comb is compatible with multi-channel micropipettes

The number of *combs per gel* and *wells per comb* are for our standard range of products  
User defined trays, combs and accessories can be custom fabricated. Please enquire for further details

Manufactured and Marketed by **TechResource**

188, Nagdevi Street, 2<sup>nd</sup> Floor, Mumbai 400003.  
[www.techsource.biz](http://www.techsource.biz), Email: [ts1@vsnl.com](mailto:ts1@vsnl.com); Tel: (022) 28937286

## SLEEKSUB

For DNA and protein separation

## SLEEKSUB-R

For RNA, DNA and protein separation

System has higher resistance to cleaning agents

- ✓ UV-transparent tray with gel gripping design
- ✓ Uni-directional migration
- ✓ Gel sizes: 7 (w) X 5, 10, 15 (l) cm
- ✓ No. of samples: [1-15] x 2 combs
- ✓ Buffer requirement: 270 mL



### Ready-to-use system includes

1. Tank with electrodes and male connectors mounted at an angle
2. UV-transparent tray with gel gripping design, 7 (w) x 10 (l) cm
3. Comb stand with positioning pins and metal screws for adjusting comb height
4. PMMA comb (10 wells, 1.5 mm thick)
5. Gel slicer
6. Niche cleaner
7. Lid
8. Electrical cords with male & female connectors designed for user safety (one pair)
9. Instruction manual

**Suggestion**  
Order along with ready-to-use system

Extra comb stands (08-07870),  
Gel-casting chamber (08-25152),  
Extra combs, Extra Trays

### Ordering description

**Sleeksub:** Horizontal apparatus for DNA and protein separations: with gel gripping UV-transparent tray, male connectors mounted at an angle and unidirectional migration, gel size 7 (w) x 10 (l) cm.

**Sleeksub-R:** Horizontal apparatus for nucleic acid and protein separations: fabricated to tolerate cleaning reagents used in RNA analysis, with gel gripping UV-transparent tray, male connectors mounted at an angle and unidirectional migration, gel size 7 (w) x 10 (l) cm.

### Sleeksub and its spares and accessories

Item Description	Cat No.	Unit
Sleeksub, ready-to-use system	08-00102	System
Sleeksub-R, ready-to-use system	08-00105	System
UV-opaque tray [gel size 7 (w) x 5 (l) cm]	08-02051	Piece
UV-transparent tray of gel gripping design [gel size 7 (w) x 5 (l) cm]	08-02052	Piece
UV-opaque tray [gel size 7 (w) x 10 (l) cm]	08-02101	Piece
UV-transparent tray of gel gripping design [gel size 7 (w) x 10 (l) cm]	08-02102	Piece
UV-transparent tray of gel gripping design [gel size 3 (w) x 10 (l) cm]	08-03104	Piece
UV-opaque tray [gel size 7 (w) x 15 (l) cm]	08-02151	Piece
UV-transparent tray of gel gripping design [gel size 7 (w) x 15 (l) cm]	08-02152	Piece
Comb stand with positioning pins and metal screws for adjusting comb height	08-07870	Piece
Comb 1 mm thick, PMMA, 10 wells/ 68 mm	08-09101	Piece
Comb 1.5 mm thick, PMMA, 10 wells/ 68 mm	08-09102	Piece
Comb 2 mm thick, PMMA, 10 wells/ 68 mm	08-09103	Piece
Comb 1.5 mm thick, PMMA, 16 wells/ 68 mm	08-09162	Piece
Comb, winged, 1.5 mm thick, 4 wells/ 68 mm	08-10042	Piece
Gel casting chamber for tray 7 cm (w) and varying length upto 15 cm	08-25152	Piece
Screws for gel casting chamber (2 No.)	08-26088	Packet
Gel slicer, breakage resistant, 6.5 (w) x 15 (l) cm	63-05150	Piece
Niche cleaner	64-06075	Piece
Electrical cords with male & female connectors designed for user safety	66-40124	Pair
Penta-legged levelling table (21 x 21 cm) with spirit-level	69-41219	Set

User defined trays, combs and accessories can be custom fabricated. Please enquire for details.

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## GELMARINER

For DNA and protein separation

## GELMARINER-R

For RNA, DNA and protein separation  
System has higher resistance to cleaning agents

## GELMARINER-R

For RNA, DNA and protein separation  
System has higher resistance to cleaning agents



- ✓ UV-transparent tray with gel gripping design
- ✓ Uni-directional migration
- ✓ Gel size: 10 (w) x 10, 15, 20 (l) cm
- ✓ No. of samples: [1-20] x 2 combs
- ✓ Buffer requirement: 400 mL

### Ready-to-use system includes

1. Tank with electrodes and male connectors mounted at an angle
2. UV-transparent tray with gel gripping design, 10 (w) x 15 (l) cm
3. Comb stand with positioning pins and metal screws for adjusting comb height
4. PMMA comb (15 wells, 1.5 mm thick)
5. Gel slicer
6. Niche cleaner
7. Lid
8. Electrical cords with male & female connectors designed for user safety (1 pair)
9. Instruction manual

**Suggestion**  
Order along with ready-to-use system

Extra comb stand (10-07116),  
Gel-casting chamber (10-25202),  
Extra combs, Extra trays

### Ordering description

**Gelmariner:** Horizontal apparatus for DNA and protein separations: with gel gripping UV-transparent tray, male connectors mounted at an angle and unidirectional migration, gel size 10 (w) x 15 (l) cm.

**Gelmariner-R:** Horizontal apparatus for nucleic acid and protein separations: fabricated to tolerate cleaning reagents used in RNA analysis, with gel gripping UV-transparent tray, male connectors mounted at an angle and unidirectional migration, gel size 10 (w) x 15 (l) cm.

**Gelmariner-RC:** Horizontal apparatus for nucleic acid and protein separations: fabricated to tolerate cleaning reagents used in RNA analysis, with gel gripping UV-transparent tray, male connectors mounted at an angle and unidirectional migration, ports for buffer circulation and cooling, gel size 10 (w) x 15 (l) cm.

### Gelmariner and its spares and accessories

Item Description	Cat No.	Unit
Gelmariner, ready-to-use system	10-00152	System
Gelmariner-R, ready-to-use system	10-00155	System
Gelmariner-RC, ready-to-use system	10-00156	System
UV-opaque tray [gel size 10 (w) x 10 (l) cm]	10-02101	Piece
UV-transparent tray of gel gripping design [gel size 10 (w) x 10 (l) cm]	10-02102	Piece
UV-opaque tray [gel size 10 (w) x 15 (l) cm]	10-02151	Piece
UV-transparent tray of gel gripping design [gel size 10 (w) x 15 (l) cm]	10-02152	Piece
UV-opaque tray [gel size 10 (w) x 20 (l) cm]	10-02201	Piece
UV-transparent tray of gel gripping design [gel size 10 (w) x 20 (l) cm]	10-02202	Piece
Comb stand with positioning pins and metal screws for adjusting comb height	10-07116	Piece
Comb 1 mm thick, PMMA, 15 wells/ 98 mm	10-09151	Piece
Comb 1.5 mm thick, PMMA, 15 wells/ 98 mm	10-09152	Piece
Comb 2 mm thick, PMMA, 15 wells/ 98 mm	10-09153	Piece
Comb 1.5 mm thick, PMMA, 20 wells/ 98 mm	10-09202	Piece
Gel casting chamber for tray 10 cm (w) and varying length up to 20 cm	10-25202	Piece

RESEARCHER RANGE - HORIZONTAL GEL APPARATUS  
PERFORMANCE COMPARABLE TO IMPORTED EQUIPMENT

Item Description	Cat No.	Unit
Screws for gel casting chamber (2 No.)	10-26088	Packet
Gel slicer, breakage resistant, 9.5 (w) x 20 (l) cm	63-05200	Piece
Niche cleaner	64-06075	Piece
Electrical cords with male & female connectors designed for user safety	66-40124	Pair
Penta-legged levelling table (23 x 31 cm) with spirit-level	69-41319	Set

User defined trays, combs and accessories can be custom fabricated. Please enquire for details.

RESEARCHER RANGE - HORIZONTAL GEL APPARATUS  
PERFORMANCE COMPARABLE TO IMPORTED EQUIPMENT

Item Description	Cat No.	Unit
Comb 1.5 mm thick , PMMA, 32 wells/ 148 mm	09-09322	Piece
Gel casting chamber for tray 15 cm (w) and varying length up to 25 cm	09-25252	Piece
Screws for gel casting chamber (2 No.)	09-26088	Packet
Gel slicer, breakage resistant, 14.5 (w) x 25 (l) cm	63-05250	Piece
Niche cleaner	64-06075	Piece
Electrical cords with male & female connectors designed for user safety	66-40124	Pair
Penta-legged levelling table (28 x 45 cm) with spirit-level	69-41459	Set

User defined trays, combs and accessories custom fabricated

## GREYWHALE -R

**System has higher resistance to cleaning agents  
For RNA, DNA and protein separation**

## GREYWHALE -RC

**System has higher resistance to cleaning agents  
For RNA, DNA and protein separation  
Ports for cooling and buffer circulation**

- ✓ UV-transparent tray with gel gripping design
- ✓ Uni-directional migration
- ✓ Comb compatible with multi-channel micropipettes available
  
- ✓ Gel size: 30 (w) x 10, 15, 20, 30 (l) cm
- ✓ No. of samples: [1-64] x 5 combs
- ✓ Buffer requirement: 2200 mL

### Ready-to-use system includes

1. Tank with electrodes and male connectors mounted at an angle
2. UV-transparent tray with gel gripping design, 30 (w) x 30 (l) cm
3. Comb stand with positioning pins and metal screws for adjusting comb height
4. PMMA comb (54 wells, 1.5 mm thick)
5. Gel slicer
6. Niche cleaner
7. Lid
8. Electrical cords with male & female connectors designed for user safety (1 pair)
9. Instruction manual

**Suggestion**  
Order along with ready-to-use system

Extra Comb stands (12-07171),  
Gel-casting chamber (12-25302),  
Extra combs, Extra trays

### Ordering description

**Greywhale-R:** Horizontal apparatus for nucleic acid and protein separations: fabricated to tolerate cleaning reagents used in RNA analysis, with gel gripping UV-transparent tray, male connectors mounted at an angle and uni-directional migration, gel size 30 (w) x 30 (l) cm.

**Greywhale-RC:** Horizontal apparatus for nucleic acid and protein separations: fabricated to tolerate cleaning reagents used in RNA analysis, with gel gripping UV-transparent tray, male connectors mounted at an angle and uni-directional migration, ports for cooling and buffer circulation, gel size 30 (w) x 30 (l) cm.

### Greywhale and its spares and accessories:

Item Description	Cat No.	Unit
Greywhale-R, ready-to-use system	12-00305	System
Greywhale-RC, ready-to-use system	12-00306	System
UV-transparent tray of gel gripping design [gel size 30 (w) x 10 (l) cm]	12-02102	Piece
UV-transparent tray of gel gripping design [gel size 30 (w) x 15 (l) cm]	12-02152	Piece
UV-transparent tray of gel gripping design [gel size 30 (w) x 20 (l) cm]	12-02202	Piece
UV-transparent tray of gel gripping design [gel size 30 (w) x 30 (l) cm]	12-02302	Piece
Comb stand with positioning pins and metal screws for adjusting comb height	12-07171	Piece
Comb 1 mm thick, PMMA, 54 wells/298 mm	12-09541	Piece
Comb 1.5 mm thick, PMMA, 54 wells/ 298 mm	12-09542	Piece
Comb 2 mm thick, PMMA, 54 wells/ 298 mm	12-09543	Piece
Comb 1.5 mm thick, PMMA, 64 wells/ 298 mm, well spacing compatible with multi-channel micropipette	12-09642	Piece
Gel casting chamber for tray 30 cm (w) and varying length up to 30 cm	12-25302	Piece
Screws for gel casting chamber (2 No.)	12-26088	Packet
Gel slicer, breakage resistant, 29.5 (w) x 30 (l) cm	63-05300	Piece
Niche cleaner	64-06075	Piece
Electrical cords with male & female connectors designed for user safety	66-40124	Pair
Penta-legged levelling table (38 x 52 cm) with spirit-level	69-41529	Set

User defined trays, combs and accessories can be custom fabricated. Please enquire for details.

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## BI-STRIP

*For cellulose acetate strips and agarose slides*

- ✓ Accommodates CA strip of size 8 (w) x 6, 8, 14 (l) cm
- ✓ Six 1 x 3 inch glass slides
- ✓ Buffer requirement: 150 mL



### Ready-to-use system includes

1. Lid
2. Tank with platform 8 (l) x 16 (w) cm, having male connectors and electrodes for uni-directional migration
3. Holder for CA strips
4. Electrical cords with male & female connectors designed for user safety (1 pair)
5. Instruction manual

### Ordering Description

**Bi-strip:** Horizontal electrophoresis system for cellulose acetate strips and agarose slides with CA strip holder, capacity for six 1 x 3 (inch) glass slides, male connectors and uni-directional migration.

### Bi-strip and its Spares and Accessories

Item Description	Cat No.	Unit
Bi-Strip, ready-to-use system	11-08168	System
Holder for CA strips	11-10163	Piece
Electrical cords with male & female connectors designed for user safety (one pair)	66-40124	Set
Penta-legged levelling table (21 x 21 cm) with spirit level	69-41219	Set



## KOMET

For single cell comet assay

- ✓ Removable buffer circulation cassettes
- ✓ Inbuilt levelling mechanism
- ✓ Buffer requirement: 950 mL
- ✓ Can be used for DNA and protein separation (with accessories)



### Ready-to-use system includes

1. Lid
  2. Tank with two dual male connectors per electrode and a levelling arrangement
  3. Two trays with slot to lift slides [each of size 21 (w) x 9 (l) cm for 8 slides] and made of breakage resistant plastic
  4. Two buffer distribution cassettes marked 'Withdrawal' and 'Deliver' with attached tubing connectors
  5. Two connecting cords (each with one male and two female connectors)
  6. Instruction manual
- \* Peristaltic pump to be ordered separately

**Suggestion**  
Order along with ready-to-use system

Peristaltic pump (07-02100),  
Tray (07-02202),  
Comb stand (07-07193)  
Gel slicer (63-05300)  
Niche cleaner (64-06075)  
Extra combs

### Ordering description

**Komet:** Horizontal apparatus for single cell comet assay with removable buffer distribution cassettes fitted with tubing and connectors. Tray size; 21 (w) x 22 (l) cm (16 slides)

**Peristaltic pump:** Peristaltic pump with variable speed, bi-directional continuous operation, LED display and timer, flow rate: 14-450 mL/min

### Komet and its spares and accessories

Item Description	Cat No.	Unit
Komet, ready-to-use system	07-00001	System
Peristaltic pump with variable speed, bi-directional continuous operation, LED display and timer, flow rate: 14-450 mL/min	07-02100	Unit
Trays of breakage resistant plastic (combined size 21 (w) x 22 (l) to accommodate 16 slides (2 No.)	07-03091	Set
Connecting cords, each with a male and two female connectors	07-40225	Pair
*UV-transparent tray of gel gripping design [gel size 20 (w) x 22 (l) cm	07-02202	Piece
*Comb stand with positioning pins and metal screws for adjusting comb height	07-07193	Piece
*Comb, 1 mm thick, PMMA, 30 wells/202 mm	07-09301	Piece
*Comb, 1.5 mm thick, PMMA, 30 wells/ 202 mm	07-09302	Piece
*Comb, 2 mm thick, PMMA, 30 wells/ 202 mm	07-09303	Piece
*Gel slicer, breakage resistant, 13.5 (w) x 30 cm	63-05300	Piece
*Niche cleaner	64-06075	Piece

\* Indicates accessories for using KOMET for DNA and protein separation