

RESEARCHER RANGE VERTICAL GEL APPARATUS SPECIAL 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

Wells not at a slant as combs sit well levelled on spacers

ECONOMICAL

Run upto two gels per side

Short and defined run times as gels can be run at constant current

Can be run in the refrigerator due to its small footprint

Saves reagent & operator cost as leakage and errors are prevented

RUGGED

Breakage resistant Teflon combs, spacers & fibre-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

HIGH RESOLUTION

Sharper bands because of thin glass plates and deep cathodic tank ensures that the entire gel-sandwich being in contact with buffer

Low positioned electrodes stir buffer to cool gel-sandwich plates

No artefacts as gel sticks to spacers; the electric field is uniform; and the gel cooling is effective

RESEARCHER RANGE

VERTICAL GEL APPARATUS SELECTION GUIDE

Model	Single / dual sided	No. of gels at a time	Gel size			No. of wells/ comb	Vol/ well (μL)	Buffer requirement (mL)	Run time [□]	Recommended Power supply*
			width (cm)	length (cm)	thickness (mm)					
MICROKIN	Single	1, 2	8.5	7.5	1, 1.5	10	50, 75	150	45 m	<i>Electragel 100</i>
						13	30, 50			
MONOKIN	Single	1, 2	8.5	12	1, 1.5	10	75, 112	350	1 h 10 m	
						13	50, 66			
MACROKIN-S	Single	1, 2	18.5	18	1, 1.5	23	75, 112	750	1 h 50 m	<i>Electrapage 200</i>
						30	50, 66			
MACROKIN	Single	1, 2	18.5	24	1, 1.5	23	75, 112	900	2 h 30 m	
						30	50, 66			
MINIKIN	Dual	1, 2, 3, 4	10	12	1, 1.5, 3	12	45, 66	1000	1 h 10 m	<i>Electragel 100</i>
			Length and breadth can be varied			16	75, 112			
			Length and breadth can be varied			user defined [^]				

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

h – hours, m – minutes

The thickness of the gel and the corresponding volume/ well is kept of the same color font for easy perusal.

[□]Run time is approximate for 10 % SDS page run at constant current of 1.67 mA/cm width of gel/ mm thickness of gel

[^] Preparative comb – Well size can be defined by the user at the time of ordering

MICROKIN

Gel size: 8.5 (w) x 7.5 (l) cm

- ✓ **Single sided, runs one or two gels**
- ✓ **In-situ gel casting**
- ✓ **Designed for effective gel cooling**
- ✓ **No sample loss in uni-directional migration model**

- ✓ **Gel thickness: 1/1.5 mm**
- ✓ **Wells per gel: 10/13**
- ✓ **Buffer requirement: 150 mL**
- ✓ **10% SDS-PAGE run in 45 min**



Ready-to-use system includes

1. Lower anodic tank fitted with male connector and electrode
2. Cathodic electrode unit for *in situ* gel casting fitted with male connector and electrode
3. Resilient silicone gasket for cathodic electrode unit
4. One notched and one rectangular glass plate
5. Two 1.5 mm thick, breakage resistant, slotted spacers
6. One PTFE comb (1.5 mm thick, 10 wells, est. vol. 75 μ L/well)
7. Set of clamps with screws
8. Agarose dispenser for filling slot in spacers
9. Gel-sandwich opener
10. Lid
11. Electrical cords with male & female connectors designed for user safety (1 pair)
12. Instruction manual

Suggestion

Order along with Ready-to-use system

A set of notched fibreglass plate, rectangular glass plate and gel detacher (02-29071), Gel-casting stand (02-33070), Glass plate stand (02-35085)

Ordering description

Microkin: Vertical electrophoresis single sided system of gel size 8.5 (w) x 7.5 (l) cm, with male connectors, in situ gel casting, slotted spacers, un-directional migration and capable of accepting two gels

Microkin-BD: Vertical electrophoresis single sided system of gel size 8.5 (w) x 7.5 (l) cm, with male connectors, in situ gel casting, slotted spacers, bi-directional migration and capable of accepting two gels

Microkin and its spares and accessories

Item Description	Cat. No.	Unit
Microkin, ready-to-use system for uni-directional migration	02-00142	System
Microkin, ready-to-use system for bi-directional migration	02-00143	System
Clamps 8.5 (l) cm with screws (one pair)	02-05085	Set
Screws for clamps and cathodic electrode unit (two of each)	02-06148	Packet
Resilient silicone gasket for cathodic electrode unit	02-08264	Piece
Comb 1 mm thick, PTFE, 10 wells, 10 mm deep, est. vol. 50 μ L/well	02-14101	Piece
Comb 1.5 mm thick, PTFE, 10 wells, 10 mm deep, est. vol. 75 μ L/well	02-14102	Piece
Comb 1 mm thick, PTFE, 13 wells, 10 mm deep, est. vol. 30 μ L/well	02-14131	Piece
Comb 1.5 mm thick, PTFE, 13 wells, 10 mm deep, est. vol. 45 μ L/well	02-14132	Piece
Spacers, slotted, 1 mm thick, breakage resistant (one pair)	02-17081	Set
Spacers, slotted, 1.5 mm thick, breakage resistant (one pair)	02-17082	Set
Notched and rectangular glass plate, 12.5 (w) x 8.5 (l) cm (one of each)	02-28072	Set
Rectangular glass plates, 12.5 (w) x 8.5 (l) cm (two)	02-28082	Set
Notched fibreglass plate (breakage resistant), rectangular glass plate and gel detacher (one of each)	02-29071	Set
Gel-detacher for fibreglass plate	02-30105	Piece
Gel-casting stand with binder clips	02-33075	Piece
Glass plate stand	02-35085	Piece
Gel-sandwich opener	61-30257	Piece
Agarose dispenser for filling slot in 1 mm spacer	62-36201	Piece
Agarose dispenser for filling slot in 1.5 mm spacer	62-36182	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

MONOKIN

Gel size: 8.5 (w) x 12 (l) cm

- ✓ Single sided, runs one or two gels
- ✓ *In-situ* gel casting
- ✓ Designed for effective gel cooling
- ✓ No sample loss in uni-directional migration model

- ✓ Gel thickness: 1/1.5 mm
- ✓ Wells per gel: 10/13
- ✓ Buffer requirement: 350 mL
- ✓ 10% SDS-PAGE run in 1 hr 10 min



Ready-to-use system includes

1. Lower anodic tank fitted with male connector and electrode
2. Cathodic electrode unit for *in situ* gel casting fitted with male connector and electrode
3. Resilient silicone gasket with insert for cathodic electrode unit
4. One notched and one rectangular glass plate
5. Two 1.5 mm thick, breakage resistant, slotted spacers
6. One PTFE comb (1.5 mm thick, 10 wells, est. vol. 112 μ L/well)
7. Set of clamps with screws
8. Agarose dispenser for filling slot in spacers
9. Gel-sandwich opener
10. Lid
11. Electrical cords with male & female connectors designed for user safety (1 pair)
12. Instruction manual

Suggestion

Order along with ready-to-use system

A set of notched fibreglass plate, rectangular glass plate and gel detacher (03-29121), Gel-casting stand (03-33115), Glass plate stand (03-35084)

Ordering description

Monokin: Vertical electrophoresis single sided system of gel size 8.5 (w) x 12 (l) cm, with male connectors, *in situ* gel casting, slotted spacers, uni-directional migration and capable of accepting two gels

Monokin -BD: Vertical electrophoresis single sided system of gel size 8.5 (w) x 12 (l) cm, with male connectors, *in situ* gel casting, slotted spacers, bi-directional migration and capable of accepting two gels

Monokin and its spares and accessories

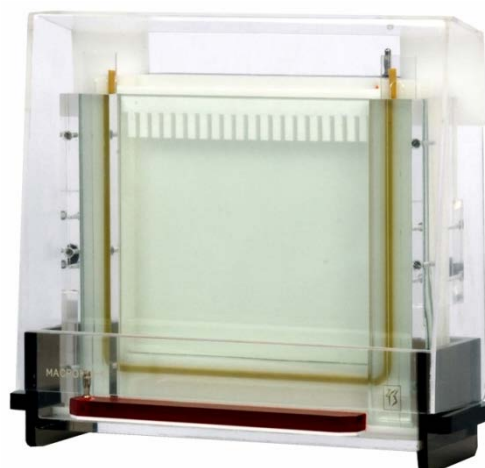
Item Description	Cat. No.	Unit
Monokin, ready-to-use system for uni-directional migration	03-00182	System
Monokin, ready-to-use system for bi-directional migration	03-00183	System
Clamps 13 (l) cm with screws (one pair)	03-05130	Set
Screws for clamps and cathodic electrode unit (two of each)	03-06148	Packet
Resilient silicone gasket with insert for cathodic electrode unit	03-09364	Piece
Comb 1 mm thick, PTFE, 10 wells, 15 mm deep, est. vol. 75 μ L/well	03-14101	Piece
Comb 1.5 mm thick, PTFE, 10 wells, 15 mm deep, est. vol. 112 μ L/well	03-14102	Piece
Comb 1 mm thick, PTFE, 13 wells, 15 mm deep, est. vol. 45 μ L/well	03-14131	Piece
Comb 1.5 mm thick, PTFE, 13 wells, 15 mm deep, est. vol. 66 μ L/well	03-14132	Piece
Spacers, slotted, 1 mm thick, breakage resistant (one pair)	03-17131	Set
Spacers, slotted, 1.5 mm thick, breakage resistant (one pair)	03-17132	Set
Notched and rectangular glass plates, 12.5 (w) x 13 (l) cm (one of each)	03-28122	Set
Rectangular glass plates, 12.5 (w) x 13 (l) cm (two)	03-28132	Set
Notched fibreglass plate (breakage resistant), rectangular glass plate and gel detacher (one of each)	03-29121	Set
Gel-detacher for fibreglass plate	03-30105	Piece
Gel-casting stand with binder clips	03-33125	Piece
Glass plate stand	03-35085	Piece
Gel-sandwich opener	61-30182	Piece
Agarose dispenser for filling slot in 1 mm spacer	62-36201	Piece
Agarose dispenser for filling slot in 1.5 mm spacer	62-36182	Piece
Electrical cords with male & female connectors designed for user safety	66-40124	Pair
Gradient mixer with triple-barrel and plunging stopper. Volume per chamber 14 mL. Accommodates magnetic spin-bar of \leq 10 mm length	67-50167	Piece
Penta-legged levelling table (21 x 21 cm) with spirit-level	69-41219	Set

MACROKIN-S

Gel size: 18.5 (w) x 18 (l) cm

- ✓ **Single sided, runs one or two gels**
- ✓ **In-situ gel casting**
- ✓ **Designed for effective gel cooling**
- ✓ **No sample loss in uni-directional migration model**

- ✓ **Gel thickness: 1/1.5 mm**
- ✓ **No. of wells: 23/30**
- ✓ **Buffer requirement: 750 mL**
- ✓ **10% SDS-PAGE run in 1 h 50 min**



Ready-to-use system includes

1. Lower anodic tank fitted with male connector and electrode
2. Cathodic electrode unit for *in situ* gel casting fitted with male connectors and electrode
3. Resilient silicone gasket with insert for cathodic electrode unit
4. One notched and one rectangular glass plate
5. Two 1.5 mm thick, breakage resistant, slotted spacers
6. One PTFE comb (1.5 mm thick, 23 wells, est. vol. 112 μ L/well)
7. Set of clamps with screws
8. Agarose dispenser for filling slot in spacers
9. Gel-sandwich opener
10. Lid
11. Electrical cords with male & female connectors designed for user safety (1 pair)
12. Instruction manual

Suggestion

Order along with ready-to-use system

Gel-casting stand (04-33185)
Glass plate stand (04-35176)

Ordering description

Macrokin-S: Vertical electrophoresis single sided system of gel size 18.5 (w) cm x 18 (l), with male connectors, in situ gel casting, slotted spacers, uni-directional migration and capable of accepting two gels

Macrokin-S(BD): Vertical electrophoresis single sided system of gel size 18.5 (w) cm x 18 (l), with male connectors, in situ gel casting, slotted spacers, bi-directional migration and capable of accepting two gels

Macrokin-S and its spares and accessories

Item Description	Cat. No.	Unit
Macrokin-S, ready-to-use system for uni-directional migration	04-00192	System
Macrokin-S, ready-to-use system for bi-directional migration	04-00193	System
Clamps 19 (l) cm with screws (one pair)	04-05190	Set
Screws for clamps and cathodic electrode unit (two of each)	04-06148	Packet
Resilient silicone gasket with insert for cathodic electrode unit	04-09544	Piece
Comb 1 mm thick, PTFE, 23 wells, 15 mm deep, est. vol. 75 μ L/well	04-14231	Piece
Comb 1.5 mm thick, PTFE, 23 wells, 15 mm deep, est. vol. 112 μ L/well	04-14232	Piece
Comb 1 mm thick, PTFE, 30 wells, 15 mm deep, est. vol. 45 μ L/well	04-14301	Piece
Comb 1.5 mm thick, PTFE, 30 wells, 15 mm deep, est. vol. 66 μ L/well	04-14302	Piece
Spacers, slotted, 1 mm thick, breakage resistant (one pair)	04-17191	Set
Spacers, slotted, 1.5 mm thick, breakage resistant (one pair)	04-17192	Set
Notched (3 mm) and rectangular glass plates, 23.5 (w) x 19 (l) cm (one of each)	04-28182	Set
Rectangular glass plates, 23.5 (w) x 19 (l) cm (two)	04-28192	Set
Gel-casting stand with binder clips	04-33185	Piece
Glass plate stand	04-35176	Piece
Gel-sandwich opener	61-30257	Piece
Agarose dispenser for filling slot in 1 mm spacer	62-36201	Piece
Agarose dispenser for filling slot in 1.5 mm spacer	62-36182	Piece
Electrical cords with male & female connectors design for user safety	66-40124	Pair
Gradient mixer with triple-barrel and plunging stopper. Volume per chamber 22 mL. Accommodates magnetic spin-bar of \leq 14 mm length	67-50207	Piece
Penta-legged levelling table (28 x 45 cm) with spirit-level	69-41319	Set

MACROKIN

Gel size: 18.5 (w) x 24 (l) cm

- ✓ **Single sided, runs one or two gels**
- ✓ **In-situ gel casting**
- ✓ **Designed for effective gel cooling**
- ✓ **No sample loss in uni-directional migration model**

- ✓ **Gel thickness: 1/1.5 mm**
- ✓ **Wells per gel: 23/30**
- ✓ **Buffer requirement: 900 mL**
- ✓ **10% SDS-PAGE run in 2 hr 30 min**



Ready-to-use system includes

1. Lower anodic tank fitted with male connector and electrode
2. Cathodic electrode unit for *in situ* gel casting fitted with male connectors and electrode
3. Resilient silicone gasket with insert for cathodic electrode unit
4. One notched and one rectangular glass plate
5. Two 1.5 mm thick, breakage resistant, slotted spacers
6. One PTFE comb (1.5 mm thick, 23 wells, est. vol. 112 μ L/well)
7. Set of clamps with screws
8. Agarose dispenser for filling slot in spacers
9. Gel-sandwich opener
10. Lid
11. Electrical cords with male & female connectors designed for user safety (1 pair)
12. Instruction manual

Suggestion

Order along with Ready-to-use system

Gel-casting stand (04-33245),
Glass plate stand (04-35178)

Ordering description

Macrokin: Vertical electrophoresis single sided system of gel size 18.5 (w) x 24 (l) cm, with male connectors, in situ gel casting, slotted spacers, uni-directional migration and capable of accepting two gels

Macrokin BD: Vertical electrophoresis single sided system of gel size 18.5 (w) x 24 (l) cm, with male connectors, in situ gel casting, slotted spacers, bi-directional migration and capable of accepting two gels

Macrokin and its spares and accessories

Item Description	Cat. No.	Unit
Macrokin, ready-to-use system for uni-directional migration	04-00312	System
Macrokin, ready-to-use system for bi-directional migration	04-00313	System
Clamps 25 (l) cm with screws (one pair)	04-05250	Set
Screws for clamps and cathodic electrode unit (two of each)	04-06148	Packet
Resilient silicone gasket with insert for cathodic electrode unit	04-09664	Piece
Comb 1 mm thick, PTFE, 23 wells, 15 mm deep, est. vol. 75 μ L/well	04-14231	Piece
Comb 1.5 mm thick, PTFE, 23 wells, 15 mm deep, est. vol. 112 μ L/well	04-14232	Piece
Comb 1 mm thick, PTFE, 30 wells, 15 mm deep, est. vol. 45 μ L/well	04-14301	Piece
Comb 1.5 mm thick, PTFE, 30 wells, 15 mm deep, est. vol. 66 μ L/well	04-14302	Piece
Spacers, slotted, 1 mm thick, breakage resistant (one pair)	04-17251	Set
Spacers, slotted, 1.5 mm thick, breakage resistant (one pair)	04-17252	Set
Notched (3 mm) and rectangular glass plates, 23.5 (w) x 25 (l) cm (one of each)	04-28242	Set
Rectangular glass plates, 23.5 (w) x 25 (l) cm (two)	04-28252	Set
Gel-casting stand with binder clips	04-33245	Piece
Glass plate stand	04-35178	Piece
Gel-sandwich opener	61-30257	Piece
Agarose dispenser for filling slot in 1 mm spacer	62-36201	Piece
Agarose dispenser for filling slot in 1.5 mm spacer	62-36182	Piece
Electrical cords with male & female connectors design for user safety	66-40124	Pair
Gradient mixer with triple-barrel and plunging stopper. Volume per chamber 22 mL. Accommodates magnetic spin-bar of \leq 14 mm length	67-50207	Piece
Penta-legged levelling table (28 x 45 cm) with spirit-level	69-41319	Set

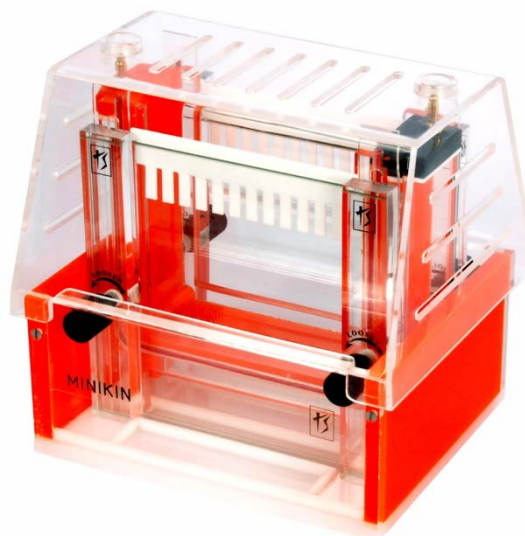
MINIKIN

Standard gel size: 10 (w) x 12 (l) cm

Allows variation of gel size in length, width and thickness

- ✓ **Dual sided model**
- ✓ **Runs one/ two/ three/ four gels at a time**
- ✓ **In-situ gel casting**
- ✓ **Designed for effective gel cooling**
- ✓ **No sample loss due to uni-directional migration**

- ✓ **Gel thickness: 1/1.5/3mm**
- ✓ **Wells per gel: 12/16**
- ✓ **Buffer requirement: 1000 mL**
- ✓ **10% SDS-PAGE run in 1 hr 10 min**



Ready-to-use system includes

1. Lower anodic tank
2. Central electrode unit for *in situ* gel casting fitted with electrodes and gold plated male connectors
3. Two resilient silicone gaskets with inserts for central electrode unit
4. Two notched and two rectangular glass plates
5. Four 1.5 mm thick, breakage resistant, slotted spacers
6. Two PTFE combs (1.5 mm thick, 12 wells, est. vol. 112 μ L/well)
7. Four clamps with screws and a clamp opener
8. Agarose dispenser for filling slot in spacers
9. Vented lid
10. Glass plate stand
11. Gel-sandwich opener
12. Two buffer savers
13. Electrical cords with gold plated male & female connectors for user safety (1 pair)
14. Instruction manual

Suggestion

Order along with ready-to-use system

A set of notched fibreglass plate, rectangular glass plate and gel detacher (01-29121), Gel-casting stand (01-33125), Acrylic dam (01-27144)

Ordering description

Minikin: Vertical electrophoresis dual sided system of gel size 10 (w) x 12 (l) cm, with gold-plated male connectors, *in situ* gel casting, slotted spacers, uni-directional migration and capable of accepting four gels

Minikin and its spares and accessories

Item Description	Cat No.	Unit
Minikin, ready-to-use system	01-00000	System
Clamps 13 (l) cm with screws (2 No.)	01-05130	Set
Clamps 13 (l) cm with screws for gel partitioning spacers (2 No.)	01-05131	Set
Screws for clamps (6 No.)	01-06209	Packet
Clamp opener	01-07152	Piece
Resilient silicone gaskets with inserts for central electrode unit (2 No.)	01-09354	Piece
Comb 1 mm thick, PTFE, 12 wells, 15 mm deep, est. vol. 75 μ L/well	01-14121	Piece
Comb 1.5 mm thick, PTFE, 12 wells, 15 mm deep, est. vol. 112 μ L/well	01-14122	Piece
Comb 1 mm thick, PTFE, 16 wells, 15 mm deep, est. vol. 45 μ L/well	01-14161	Set
Comb 1.5 mm thick, PTFE, 16 wells, 15 mm deep, est. vol. 66 μ L/well	01-14162	Piece
Spacers, slotted, 1 mm thick, breakage resistant (two pairs)	01-17131	Set
Spacers, slotted, 1.5 mm thick, breakage resistant (two pairs)	01-17132	Set
Spacers, preparative, slotted, 3 mm thick, 13 (l) cm	01-17134	Piece
Spacers, gel partitioning, 1 mm thick, 12 (l) cm (2 No.)	01-18131	Set
Spacers, gel partitioning, 1.5 mm thick, 12 (l) cm (2 No.)	01-18132	Set
Notched and rectangular glass plates, 14 (w) x 13 (l) cm (two of each)	01-28122	Set

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RESEARCHER RANGE - VERTICAL GEL APPARATUS
PERFORMANCE COMPARABLE TO IMPORTED EQUIPMENT

Item Description	Cat No.	Unit
Rectangular glass plates, 14 (w) x 13 (l) cm (four)	01-28132	Set
Acrylic dam (14 x 14 cm)	01-27144	Piece
Notched fibreglass plates [breakage resistant] (2 No.), rectangular glass plates (2 No.) and gel detacher (one)	01-29121	Set
Gel-detacher for fibreglass plate	01-30115	Piece
Gel-casting stand with binder clips	01-33125	Piece
Glass plate stand	01-35104	Piece
Buffer savers (2 No.)	01-37981	Set
Gel-sandwich opener	61-30257	Piece
Agarose dispenser for filling slot in 1 mm spacer	62-36201	Piece
Agarose dispenser for filling slot in 1.5 mm spacer	62-36182	Piece
Electrical cords with gold plated male & female connectors designed for user safety	66-41124	Pair
Gradient mixer with triple-barrel and plunging stopper. Volume per chamber 14mL. Accommodates magnetic spin-bar of ≤ 10 mm length	67-50167	Piece
Penta-legged levelling table (21 x 21 cm) with spirit-level	69-41219	Set