

RESEARCHER 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 Teflon combs, spacers & fibreglass 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

- Run up to 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 size
- Saves reagent & operator cost as leakage and errors are prevented



RESEARCHER RANGE VERTICAL GEL APPARATUS SELECTION GUIDE

| Model | Single /dual | No. of gels | Gel siz | | Gel siz | | Gel s | | ze | No. of wells/ | Vol/ | Vol/ well | Buffer require- | Run | Recommended |
|------------|-----------------|-------------------|---------------|---------------------------|-------------------|---------|------------------------|----------------|----------|------------------|------|--------------|-----------------|-----|-------------|
| Model | sided | at a time | width (cm) | length (cm) | thickness (mm) | comb | (µL) | ment (mL) | time ¤ | Power supply* | | | | | |
| MICROKIN | Single | 1, 2 | 8.5 | 7.5 | 1, 1.5 | 10 | 50 , 75 | 150 | 45 m | | | | | | |
| MICKOKIN | Sirigle | 1, 2 | 6.5 | 7.5 | 1, 1.5 | 13 | 30 , 50 | 150 | 45 III | Floatro del 100 | | | | | |
| MONOKIN | Single | 1, 2 | 8.5 | 12 | 1, 1.5 | 10 | 75, 112 | | 1 h 10 m | Electragel 100 | | | | | |
| WIONOKIN | Single | 1, 2 | 6.0 | 12 | 1, 1.5 | 13 | 50 , 66 | 350 1 h 10 m | 11110111 | | | | | | |
| MIDIKIN | Cin ala | 4.0 | 16.5 | 40 | 1, 1.5 | 20 | 75 , 112 | 550 | 0 h 00 m | | | | | | |
| MIDIKIN | Single | 1, 2 | 10.5 | 16 | 1, 1.5 | 26 | 50 , 66 | 550 | 2 h 20 m | | | | | | |
| MACROKIN-S | Cin ala | 4.0 | 18.5 | 18 | 4.45 | 23 | 75 , 112 | 750 | 4 h 50 m | Floatron and 200 | | | | | |
| MACROKIN-S | Single | 1, 2 | 10.5 | 10 | 1, 1 . 5 | 30 | 50 , 66 | 750 1 | 1 h 50 m | Electrapage 200 | | | | | |
| MACROKIN | Cinalo | 1.0 | 18.5 | 24 | 4.45 | 23 | 75 , 112 | | 2 h 30 m | | | | | | |
| WACROKIN | Single | 1, 2 | 10.5 | 24 | 1, 1 . 5 | 30 | 50 , 66 | 900 | 2 H 30 H | | | | | | |
| | | | 10 | 12 | | 12 | 45 , 66 | | | | | | | | |
| MINIKIN | Dual | 1, 2, 3, 4 | 10 | 12 | 1, 1.5 , 3 | 16 | 75 , 112 | 2 1000 11 | 1 h 10 m | Electragel 100 | | | | | |
| | | | bread | th and th can aried | | user de | efined^ | | | | | | | | |

[¤] Run time is an approximate time taken for migration of Bromophenol blue on a 10% SDS PAGE run at constant current of 1.67 mA/cm width of gel/ mm thickness of gel

^{*} Power supply is not included in the ready-to-use system

The thickness of the gel and the corresponding volume/ well is kept of the same font colour for easy perusal h – hours, m – minutes

[^] 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/ Casting stand
- ✓ Designed for effective gel cooling
- ✓ No sample loss due to uni-directional migration

✓ Gel thickness: 1/ 1.5 mm √ Wells per gel: 10/ 13

✓ Buffer requirement: 150 mL 10% SDS-PAGE run in 45 min





Microkin with casting stand (left)

02-00143

Features of this apparatus

Leak Proof

- Gaskets made of silicone are tough & resilient
- Leaks from plastic joints are 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 gelsandwich is in contact with the buffer
- Low positioned electrodes stir buffer to cool gel

02-00142

Error Minimization

- Migration of samples in wrong direction prevented due to unidirectional feature
- Wells formed straight as combs sit levelled with the spacers
- Run up to two gels at a time in the same system

02-00144

02-00145

Ready-to-use system includes

| | | In situ casting/ | In situ casting/ | Casting stand/ | Casting stand/ |
|-----|--|------------------|------------------|-----------------|----------------|
| | | Uni-directional | Bi-directional | Uni-directional | Bi-directional |
| | | migration | migration | migration | migration |
| 1. | Lower anodic tank fitted with male connector and electrode | Υ | Υ | Υ | Υ |
| 2. | Cathodic electrode unit fitted with male connector and electrode | Υ | Υ | Υ | Υ |
| 3. | Resilient silicone gasket for cathodic electrode unit | Υ | Υ | Υ | Υ |
| 4. | One notched and one rectangular glass plate (square bottom) | Υ | Υ | - | - |
| 5. | One notched and one rectangular glass plate (rounded bottom) | - | - | Υ | Υ |
| 6. | Two 1.5 mm thick, breakage resistant, slotted spacers | Υ | Υ | - | - |
| 7. | Two 1.5 mm thick, breakage resistant, rounded spacers | - | - | Υ | Υ |
| 8. | One PTFE comb (1.5 mm thick, 10 wells, est. vol. 75 µL/well) | Υ | Υ | Υ | Υ |
| 9. | Set of clamps with screws | Υ | Υ | Υ | Υ |
| 10. | Gel-casting stand for variable gel thickness and number | - | - | Υ | Υ |
| 11. | C shaped rubber gasket for single gel of 1.5 mm | - | - | Υ | Υ |
| 11. | Agarose dispenser for filling slot in spacers | Υ | Υ | - | - |
| 12. | Gel-sandwich opener | Υ | Υ | Υ | Υ |
| 13. | Lid for safety | Υ | Υ | Υ | Υ |
| 14. | Electrical cords with male & female connectors | Υ | Υ | Υ | Υ |
| 15. | Instruction manual | Υ | Υ | Υ | Υ |

Ordering description

Microkin (02-00142): Vertical electrophoresis single sided system of gel size 8.5 (w) x 7.5 (I) cm, with male connectors, in situ gel casting, slotted spacers, uni-directional migration and capable of accepting two gels.

Microkin-BD (02-00143): Vertical electrophoresis single sided system of gel size 8.5 (w) x 7.5 (I) cm, with male connectors, in situ gel casting, slotted spacers, bi-directional migration and capable of accepting two gels.

Microkin with Casting stand (02-00144): Vertical electrophoresis single sided system of gel size 8.5 (w) x 7.5 (l) cm with male connectors, casting stand with 'C' shaped gasket for

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 (02-33050), Glass plate stand (02-35085), Comb with 13 wells (02-14131/2)

agarose free gel casting, rounded spacers, uni-directional migration and capable of accepting two gels.



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Microkin-BD with Casting stand (02-00145): Vertical electrophoresis single sided system of gel size 8.5 (w) x 7.5 (l) cm, with male connectors, casting stand with 'C' shaped gasket for agarose free gel casting, rounded 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 uni-directional migration with casting stand | 02-00144 | System |
| Microkin-BD, ready-to-use system for bi-directional migration | 02-00143 | System |
| Microkin-BD, ready-to-use system for bi-directional migration with casting stand | 02-00145 | System |
| Clamps 8.5 (I) 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 µL/well | 02-14101 | Piece |
| Comb 1.5 mm thick, PTFE, 10 wells, 10 mm deep, est. vol. 75 µL/well | 02-14102 | Piece |
| Comb 1 mm thick, PTFE, 13 wells, 10 mm deep, est. vol. 30 µL/well | 02-14131 | Piece |
| Comb 1.5 mm thick, PTFE, 13 wells, 10 mm deep, est. vol. 45 µL/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 |
| Spacers, plain, one edge rounded, 1 mm thick, 8.5 cm length, breakage resistant (one pair) | 02-17083 | Set |
| Spacers, plain, one edge rounded, 1.5 mm thick, 8.5 cm length, breakage resistant (one pair) | 02-17084 | Set |
| Notched and rectangular glass plate, 12.5 (w) x 8.5 (l) cm (one of each), square bottom edges | 02-28072 | Set |
| Notched and rectangular glass plate, 12.5 (w) x 8.5 (l) cm (one of each), rounded bottom edges | 02-28073 | Set |
| Rectangular glass plates, 12.5 (w) x 8.5 (l) cm (two), square bottom | 02-28082 | Set |
| Rectangular glass plates, 12.5 (w) x 8.5 (l) cm (two), rounded bottom | 02-28083 | Set |
| Notched fibreglass plate (breakage resistant), rectangular glass plate, square bottom edge, and | 00 00074 | 0. |
| gel detacher (one of each) | 02-29071 | Set |
| Notched fibreglass plate (breakage resistant), rectangular glass plate, rounded bottom edge, and | 00 00070 | C-4 |
| gel detacher (one of each) | 02-29072 | Set |
| Gel-detacher for fibreglass plate | 02-30105 | Piece |
| Gel-casting stand with binder clips | 02-33075 | Piece |
| Gel-casting stand, for variable gel thickness and number, for agarose free sealing | 02-33050 | System |
| Gel-casting stand, for single gel, for agarose free sealing | 02-33010 | System |
| Gel-casting stand, for dual gel, for agarose free sealing | 02-33020 | System |
| C shaped rubber gasket (for single gel of 1 mm) for use with casting stand | 02-33152 | Piece |
| C shaped rubber gasket (for dual gel of 1 mm) for use with casting stand | 02-33153 | Piece |
| C shaped rubber gasket (for single gel of 1.5 mm) for use with casting stand | 02-33154 | Piece |
| C shaped rubber gasket (for dual gel of 1.5 mm) for use with casting stand | 02-33155 | 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 |
| Microkin, CEU. Replacement part for single sided system of gel size 8.5 (w) x 7.5 (l) cm | 02-01142 | Piece |
| Microkin-BD, CEU. Replacement part for single sided system of gel size 8.5 (w) x 7.5 (l) cm | 02-01143 | Piece |
| Microkin, tank. Replacement part for single sided system of gel size 8.5 (w) x 7.5 (l) cm | 02-02142 | Piece |
| Microkin-BD, tank. Replacement part for single sided system of gel size 8.5 (w) x 7.5 (l) cm | 02-02143 | Piece |



MONOKIN

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

- ✓ Single sided, runs one or two gels
- √ In-situ gel casting/ Casting stand
- ✓ Designed for effective gel cooling
- No sample loss due to uni-directional migration

✓ Gel thickness: 1/ 1.5 mm✓ Wells per gel: 10/ 13

✓ Buffer requirement: 350 mL

✓ 10% SDS-PAGE run in 1 hr 10 min





Monokin with casting stand (left)

03-00183

Features of this apparatus

Leak Proof

- Gaskets made of silicone are tough & resilient
- Leaks from plastic joints are 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
- No corrosion due to resin filled male connectors

High Resolution

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

03-00182

Error Minimization

- Migration of samples in wrong direction prevented due to unidirectional feature
- Wells formed straight as combs sit levelled with the spacers
- •Run up to two gels at a time in the same system

03-00185

03-00184

Ready-to-use system includes

| | | In situ casting/ Uni-directional migration | In situ casting/ Bi-directional migration | Casting stand/ Uni-directional migration | Casting stand/ Bi-directional migration |
|-----|--|--|---|--|---|
| 1. | Lower anodic tank fitted with male connector and electrode | Υ | Υ | Υ | Υ |
| 2. | Cathodic electrode unit fitted with male connector and electrode | Υ | Υ | Υ | Υ |
| 3. | Resilient silicone gasket for cathodic electrode unit | Υ | Υ | Υ | Υ |
| 4. | One notched and one rectangular glass plate (square bottom) | Υ | Υ | - | - |
| 5. | One notched and one rectangular glass plate (rounded bottom) | - | - | Υ | Υ |
| 6. | Two 1.5 mm thick, breakage resistant, slotted spacers | Υ | Υ | - | - |
| 7. | Two 1.5 mm thick, breakage resistant, rounded spacers | - | - | Υ | Υ |
| 8. | One PTFE comb (1.5 mm thick, 10 wells, est. vol. 75 µL/well) | Υ | Υ | Υ | Υ |
| 9. | Set of clamps with screws | Υ | Υ | Υ | Υ |
| 10. | Gel-casting stand for variable gel thickness and number | - | - | Υ | Υ |
| 11. | C shaped rubber gasket for single gel of 1.5 mm | - | - | Υ | Υ |
| 11. | Agarose dispenser for filling slot in spacers | Υ | Υ | - | - |
| 12. | Gel-sandwich opener | Υ | Υ | Υ | Υ |
| 13. | Lid for safety | Υ | Υ | Υ | Υ |
| 14. | Electrical cords with male & female connectors | Υ | Υ | Υ | Υ |
| 15. | Instruction manual | Υ | Υ | Υ | Υ |

Ordering description

Monokin (03-00182): Vertical electrophoresis single sided system of gel size $8.5 (w) \times 12 (l)$ cm, with male connectors, in situ gel casting, slotted spacers, uni-directional migration and capable of accepting two gels.

Monokin-BD (03-00184): Vertical electrophoresis single sided system of gel size 8.5 (w) x 12 (I) cm, with male connectors, in situ gel casting, slotted spacers, bi-directional migration and capable of accepting two gels.

Monokin with Casting stand (03-00183): Vertical electrophoresis single sided system of gel size 8.5 (w) x 12 (l) cm with male connectors, casting stand with 'C' shaped gasket for agarose free gel casting, rounded spacers, uni-directional migration and capable of accepting two gels.

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 (03-35085), Comb with 13 wells (03-14131/2)



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Monokin-BD with Casting stand (03-00185): Vertical electrophoresis single sided system of gel size 8.5 (w) x 12 (l) cm, with male connectors, casting stand with 'C' shaped gasket for agarose free gel casting, rounded 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 uni-directional migration with casting stand | 03-00184 | System |
| Monokin-BD, ready-to-use system for bi-directional migration | 03-00183 | System |
| Monokin-BD, ready-to-use system for bi-directional migration with casting stand | 03-00185 | System |
| Clamps 13 (I) cm with screws (one pair) | 03-00103 | Set |
| Screws for clamps and cathodic electrode unit (two of each) | 03-03130 | Packet |
| Resilient silicone gasket with insert for cathodic electrode unit | 03-00148 | Piece |
| Comb 1 mm thick, PTFE, 10 wells, 15 mm deep, est. vol. 75 µL/well | 03-09304 | Piece |
| Comb 1.5 mm thick, PTFE, 10 wells, 15 mm deep, est. vol. 75 µL/well | 03-14101 | Piece |
| Comb 1 mm thick, PTFE, 13 wells, 15 mm deep, est. vol. 45 µL/well | 03-14102 | Piece |
| Comb 1.5 mm thick, PTFE, 13 wells, 15 mm deep, est. vol. 45 µL/well | 03-14131 | 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 |
| Spacers, plain, 1 mm thick, breakage resistant (one pair) | 03-17083 | Set |
| Spacers, plain, 1.5 mm thick, breakage resistant (one pair) | 03-17084 | Set |
| Notched and rectangular glass plates, square bottom edges, 12.5 (w) x 13 (l) cm (one of each) | 03-28122 | Set |
| Notched and rectangular glass plates, rounded bottom edges, 12.5 (w) x 13 (l) cm (one of each) | 03-28123 | Set |
| Rectangular glass plates, square bottom, 12.5 (w) x 13 (l) cm (two) | 03-28132 | Set |
| Rectangular glass plates, rounded bottom, 12.5 (w) x 13 (l) cm (two) | 03-28133 | Set |
| Notched fibreglass plate (breakage resistant), rectangular glass plate and gel detacher (one of each) | 03-29121 | Set |
| Notched fibreglass plate (breakage resistant), with rounded bottom, rectangular glass plate and gel detacher (one of each) | 03-29122 | Set |
| Gel-detacher for fibreglass plate | 03-30105 | Piece |
| Gel-casting stand with binder clips | 03-33125 | Piece |
| Gel-casting stand, for variable gel thickness and number, for agarose free sealing | 03-33050 | System |
| Gel-casting stand, for single gel, for agarose free sealing | 03-33010 | System |
| Gel-casting stand, for dual gel, for agarose free sealing | 03-33020 | System |
| C shaped rubber gasket (for single gel of 1 mm) for use with casting stand | 03-33109 | Piece |
| C shaped rubber gasket (for dual gel of 1 mm) for use with casting stand | 03-33110 | Piece |
| C shaped rubber gasket (for single gel of 1.5 mm) for use with casting stand | 03-33111 | Piece |
| C shaped rubber gasket (for dual gel of 1.5 mm) for use with casting stand | 03-33112 | 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. | 00-40124 | Fall |
| 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 |
| Monokin, CEU. Replacement part for single sided system of gel size 8.5 (w) x 12 (l) cm, with male | 03 41213 | OCI |
| connector | 03-01182 | Piece |
| Monokin-BD, CEU. Replacement part for single sided system of gel size 8.5 (w) x 12 (l) cm, with male connector | 03-01183 | Piece |
| Monokin, tank. Replacement part for single sided system of gel size 8.5 (w) x 12 (l) cm, with male | | |
| connector | 03-02182 | Piece |
| Monokin-BD, tank. Replacement part for single sided system of gel size 8.5 (w) x 12 (l) cm, with male connector | 03-02183 | Piece |
| | | |



MIDIKIN

Standard gel size: 16.5 (w) x 16 (l) cm

- √ Single sided, runs one or two gels
- √ In-situ gel casting
- ✓ Designed for effective gel cooling
- ✓ No sample loss due to uni-directional migration
- ✓ Gel thickness: 1/ 1.5 mm
- √ Wells per gel: [20/ 26] X 2 combs
- ✓ Buffer requirement: 650 mL
- ✓ 10% SDS-PAGE run in 2 hr



Midikin

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

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 gelsandwich 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
- •Run up to two gels at a time in the same system

05-00162

Ready-to-use system includes

- 1. Lower anodic tank fitted with male connector and electrode
- 2. Cathodic electrode unit fitted with male connectors and electrode
- 3. Resilient silicone gasket with inserts for cathodic electrode unit
- 4. One notched and one rectangular glass plate (square bottom)
- 5. Two 1.5 mm thick, breakage resistant, slotted spacers
- Two PTFE comb (1.5 mm thick, 20 wells, est. vol. 112 μL/well)
- 7. Set of clamps with screws
- 8. Agarose dispenser for filling slot in spacers
- 9. Gel-sandwich opener
- 10. Lid for safety
- 11. Electrical cords with male & female connectors
- 12. Instruction manual

05-00163

| In situ casting/ | In situ casting/ |
|------------------|------------------|
| Uni-directional | Bi-directional |
| migration | migration |
| Υ | Υ |
| Υ | Υ |
| Υ | Υ |
| Υ | Υ |
| Υ | Υ |
| Υ | Υ |
| Υ | Υ |
| Υ | Υ |
| Υ | Υ |
| Υ | Υ |
| Υ | Υ |

Ordering description

Midikin (05-00162): Vertical electrophoresis single sided system of gel size 16.5 (w) x 16 (l) cm, with male connectors, in situ gel casting, slotted spacers, uni-directional migration and capable of accepting two gels

Midikin-BD (05-00163): Vertical electrophoresis single sided system of gel size 16.5 (w) x 16 (l) cm, with male connectors, in situ gel casting, slotted spacers, bidirectional migration and capable of accepting two gels

SUGGESTION

Order along with Ready-to-use system

Gel-casting stand (05-33175), Glass plate stand (05-35165), Combs with 26 wells (05-16261/2)



Midikin and its spares and accessories

| Item Description | Cat. No. | Unit |
|---|-----------|--------|
| Midikin, ready-to-use system for uni-directional migration | 05-00162 | System |
| Midikin-BD, ready-to-use system for bi-directional migration | 05-00163 | System |
| Clamps 17 (I) cm with screws (one pair) | 05-05170 | Set |
| Screws for clamps and cathodic electrode unit (two of each) | 05-06148 | Packet |
| Resilient silicone gasket with insert for cathodic electrode unit | 05-09364 | Piece |
| Comb 1 mm thick, PTFE, 20 wells, 15 mm deep, est. vol. 75 µL/well | 05-16201 | Piece |
| Comb 1.5 mm thick, PTFE, 20 wells, 15 mm deep, est. vol. 112 µL/well | 05-16202 | Piece |
| Comb 1 mm thick, PTFE, 26 wells, 15 mm deep, est. vol. 45 µL/well | 05-16261 | Piece |
| Comb 1.5 mm thick, PTFE, 26 wells, 15 mm deep, est. vol. 66 µL/well | 05-16262 | Piece |
| Spacers, slotted, 1 mm thick, breakage resistant (one pair) | 05-17171 | Set |
| Spacers, slotted, 1.5 mm thick, breakage resistant (one pair) | 05-17172 | Set |
| Notched (3 mm) and rectangular glass plates, 20.5 (w) x 17 (l) cm (one of each) | 05-28162 | Set |
| Rectangular glass plates, 20.5 (w) x 17 (l) cm (two) | 05-28172 | Set |
| Gel-casting stand with binder clips | 05-33175 | Piece |
| Glass plate stand | 05-35165 | 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 design for user safety | 66-40124 | Pair |
| Gradient mixer with triple-barrel and plunging stopper. Volume per chamber 22 mL. | 67-50207 | Piece |
| Accommodates magnetic spin-bar of ≤ 14 mm length | 67-30207 | Piece |
| Penta-legged levelling table (23 x 31 cm) with spirit-level | 69-41319 | Set |
| Midikin, CEU. Replacement part for single sided system of gel size 16.5 (w) x 16 (l) cm, with male | 05-01162 | Piece |
| connector | 05-01162 | Fiece |
| Midikin-BD, CEU. Replacement part for single sided system of gel size 16.5 (w) x 16 (l) cm, with | 05-01163 | Piece |
| male connector | 03-01103 | Fiece |
| Midikin, tank. Replacement part for single sided system of gel size 16.5 (w) x 16 (l) cm, with male | 05-02162 | Piece |
| connector | 00-02 102 | 1 1606 |
| Midikin-BD, tank. Replacement part for single sided system of gel size 16.5 (w) x 16 (l) cm, with | 05-02163 | Piece |
| male connector | 00-02100 | 1 1000 |



MACROKIN-S

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

- √ Single sided, runs one or two gels
- √ In-situ gel casting (using agarose)
- ✓ Designed for effective gel cooling
- No sample loss due to uni-directional migration
- ✓ Gels per run: 1 or 2
- √ Wells per gel: [23/30] x 2 combs
- ✓ Buffer requirement: 750 mL
- ✓ 10% SDS-PAGE run in 1 hr 50 min



Macrokin-S

04-00192

In situ casting/ In situ casting/

Features of this apparatus

Leak Proof

- Gaskets made of silicone are tough & resilient
- Leaks from plastic joints are prevented as sticking is done with specially manufactured glues

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 gelsandwich 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
- Run up to two gels at a time in the same system

04-00193

Ready-to-use system includes

| | | Uni-directional migration | Bi-directional migration |
|-----|--|---------------------------|-----------------------------|
| 1 | Lower anodic tank fitted with male connector and electrode | V | V |
| 1. | Lower arround tark littled with male confrector and electrode | 1 | 1 |
| 2. | Cathodic electrode unit fitted with male connector and electrode | Υ | Υ |
| 3. | Resilient silicone gasket for cathodic electrode unit | Υ | Υ |
| 4. | One notched and one rectangular glass plate (square bottom) | Υ | Υ |
| 5. | Two 1.5 mm thick, breakage resistant, slotted spacers | Υ | Υ |
| 6. | One PTFE comb (1.5 mm thick, 23 wells, est. vol. 112 µL/well) | Υ | Υ |
| 7. | Set of clamps with screws | Υ | Υ |
| 8. | Agarose dispenser for filling slot in spacers | Υ | Υ |
| 9. | Gel-sandwich opener | Υ | Υ |
| 10. | Lid for safety | Υ | Υ |
| 11. | Electrical cords with male & female connectors | Υ | Υ |
| 12. | Instruction manual | Υ | Υ |

Ordering description

Macrokin-S (04-00192): Vertical electrophoresis single sided system of gel size 18.5 (w) x 18 (I) cm, with male connectors, in situ gel casting, slotted spacers, uni-directional migration and capable of accepting two gels.

Macrokin-S-BD (04-00193): Vertical electrophoresis single sided system of gel size 18.5 (w) \times 18 (l) cm, with male connectors, in situ gel casting, slotted spacers, bi-directional migration and capable of accepting two gels.

SUGGESTION

Order along with Ready-to-use system

Gel-casting stand (04-33185), Glass plate stand (04-35176), Comb with 30 wells (04-14301/2)



Macrokin-S and its spares and accessories

| Itam Description | Cot No | Linit |
|--|----------|--------|
| Item Description | Cat. No. | Unit |
| Macrokin-S, ready-to-use system for uni-directional migration | 04-00192 | System |
| Macrokin-S-BD, ready-to-use system for bi-directional migration | 04-00193 | System |
| Clamps 19 (I) 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 µL/well | 04-14231 | Piece |
| Comb 1.5 mm thick, PTFE, 23 wells, 15 mm deep, est. vol. 112 µL/well | 04-14232 | Piece |
| Comb 1 mm thick, PTFE, 30 wells, 15 mm deep, est. vol. 45 µL/well | 04-14301 | Piece |
| Comb 1.5 mm thick, PTFE, 30 wells, 15 mm deep, est. vol. 66 µL/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 ≤ 14 mm length | 67-50207 | Piece |
| Penta-legged levelling table (28 x 45 cm) with spirit-level | 69-41459 | Set |
| Macrokin-S, CEU. Replacement part for single sided system of gel size 18.5 (w) x 18 (l) cm, with | 09-41439 | Set |
| male connector | 04-01192 | Piece |
| Macrokin-S-BD, CEU. Replacement part for single sided system of gel size 18.5 (w) x 18 (l) cm, | 04-01193 | Piece |
| with male connector | | |
| Macrokin-S, tank. Replacement part for single sided system of gel size 18.5 (w) x 18 (l) cm, with male connector | 04-02192 | Piece |
| Macrokin-S-BD, tank. Replacement part for single sided system of gel size 18.5 (w) x 18 (l) cm, with male connector | 04-02193 | Piece |



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 as uni-directional migration
- ✓ Gels per run: 1 or 2
- √ Wells per gel: [23/ 30] x 2 combs
- ✓ Buffer requirement: 950 mL
- ✓ 10% SDS-PAGE run in 2 hr 30 min



Macrokin

Features of this apparatus

Leak Proof

- Gaskets made of silicone are tough & resilient
- Leaks from plastic joints are prevented as sticking is done with specially manufactured glues

Rugged

- Breakage proof Teflon combs
- 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 gelsandwich 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
- Run up to two gels at a time in the same system

04-00313

04-00312

In situ casting/ In situ casting/

Ready-to-use system includes

| | | iri sita casting/ | iii sita castiiigi |
|-----|--|-------------------|--------------------|
| | | Uni-directional | Bi-directional |
| | | migration | migration |
| 1. | Lower anodic tank fitted with male connector and electrode | Υ | Υ |
| 2. | Cathodic electrode unit fitted with male connector and electrode | Υ | Υ |
| 3. | Resilient silicone gasket for cathodic electrode unit | Υ | Υ |
| 4. | One notched and one rectangular glass plate (square bottom) | Υ | Υ |
| 5. | Two 1.5 mm thick, breakage resistant, slotted spacers | Υ | Υ |
| 6. | One PTFE comb (1.5 mm thick, 23 wells, est. vol. 112 µL/well) | Υ | Υ |
| 7. | Set of clamps with screws | Υ | Υ |
| 8. | Agarose dispenser for filling slot in spacers | Υ | Υ |
| 9. | Gel-sandwich opener | Υ | Υ |
| 10. | Lid for safety | Υ | Υ |
| 11. | Electrical cords with male & female connectors | Υ | Υ |
| 12. | Instruction manual | Υ | Υ |
| | | | |

Ordering description

Macrokin (04-00312): 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 (04-00313): Vertical electrophoresis single sided system of gel size 18.5 (w) \times 24 (l) cm, with male connectors, in situ gel casting, slotted spacers, bi-directional migration and capable of accepting two gels.

SUGGESTION

Order along with Ready-to-use system

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



Macrokin and its spares and accessories

| | 0 () | 11.3 |
|--|----------|--------|
| Item Description | Cat. No. | Unit |
| Macrokin, ready-to-use system for uni-directional migration | 04-00312 | System |
| Macrokin-BD, ready-to-use system for bi-directional migration | 04-00313 | System |
| Clamps 25 (I) 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 µL/well | 04-14231 | Piece |
| Comb 1.5 mm thick, PTFE, 23 wells, 15 mm deep, est. vol. 112 µL/well | 04-14232 | Piece |
| Comb 1 mm thick, PTFE, 30 wells, 15 mm deep, est. vol. 45 µL/well | 04-14301 | Piece |
| Comb 1.5 mm thick, PTFE, 30 wells, 15 mm deep, est. vol. 66 µL/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. | 67-50207 | Piece |
| Accommodates magnetic spin-bar of ≤ 14 mm length | 67-50207 | Piece |
| Penta-legged levelling table (28 x 45 cm) with spirit-level | 69-41319 | Set |
| Macrokin, CEU. Replacement part for single sided system of gel size 18.5 (w) x 24 (l) cm, with | 04-01312 | Piece |
| male connector | 04-01312 | Piece |
| Macrokin-BD, CEU. Replacement part for single sided system of gel size 18.5 (w) x 24 (l) cm, with | 04-01313 | Piece |
| male connector | 04-01313 | Piece |
| Macrokin, tank. Replacement part for single sided system of gel size 18.5 (w) x 24 (l) cm, with | 04-02312 | Piece |
| male connector | 04-02312 | Piece |
| Macrokin-BD, tank. Replacement part for single sided system of gel size 18.5 (w) x 24 (l) cm, with | 04-02313 | Piece |
| male connector | 04-02313 | Fiece |



MINIKIN

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

Allows variation of gel size in length, width and thickness

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

✓ Gel thickness: 1/ 1.5 mm✓ Wells per gel: 12/ 16

✓ Buffer requirement: 1000 mL

√ 10% SDS-PAGE run in 1 hr 10 min



Minikin

Features of this apparatus

Ready-to-use system includes

Leak Proof

- Gaskets made of silicone are tough & resilient
- Leaks from plastic joints are 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 gelsandwich 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
- Run up to two gels at a time in the same system

01-00001

01-00000

In situ casting/ Casting stand/ Uni-directional Uni-directional migration migration Lower anodic tank Υ Υ Υ Central electrode unit fitted with electrodes and gold plated male connectors Υ Two resilient silicone gaskets with inserts for central electrode unit Υ Υ Two notched and two rectangular glass plate (square bottom) Υ Two notched and two rectangular glass plate (rounded bottom) Υ Four 1.5 mm thick, breakage resistant, slotted spacers Υ Four 1.5 mm thick, breakage resistant, rounded spacers Υ Two PTFE comb (1.5 mm thick, 12 wells, est. vol. 112 µL/well) Υ Four clamps with screws and a clamp opener Υ 10. Gel-casting stand for variable gel thickness and number Υ 11. C shaped rubber gasket for single gel of 1.5 mm Υ 12. Agarose dispenser for filling slot in spacers 13. Gel-sandwich opener Υ 14. Glass plate stand Υ 15. Vented lid for safety 16. Electrical cords with male & female connectors 17. Two buffer savers

18. Instruction manual



Ordering description

Minikin (01-00000): Vertical electrophoresis dual sided system of gel size $10 (w) \times 12 (l)$ cm, with gold-plated male connectors, in situ gel casting, slotted spacers, uni-directional migration and capable of accepting four gels.

Minikin with casting stand (01-00001): Vertical electrophoresis dual sided system of gel size 10 (w) x 12 (l) cm, with gold-plated male connectors, casting stand with 'C' shaped gasket for agarose free gel casting, rounded spacers, uni-directional migration and capable of accepting four gels.

SUGGESTION

Order along with ready-to-use system

A set of notched fibreglass plates, rectangular glass plates and gel detacher (01-29121), Comb with 16 wells (01-14161/2), Acrylic dam (01-27144)

Minikin and its spares and accessories

| Item Description | Cat. No. | Unit |
|--|----------|--------|
| Minikin, ready-to-use system for uni-directional migration | 01-00000 | System |
| Minikin, ready-to-use system for uni-directional migration with casting stand | 01-00001 | System |
| Clamps 13 (I) cm with screws (2 No.) | 01-05130 | Set |
| Clamps 13 (I) 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 µL/well | 01-14121 | Piece |
| Comb 1.5 mm thick, PTFE, 12 wells, 15 mm deep, est. vol. 112 µL/well | 01-14122 | Piece |
| Comb 1 mm thick, PTFE, 16 wells, 15 mm deep, est. vol. 45 µL/well | 01-14161 | Set |
| Comb 1.5 mm thick, PTFE, 16 wells, 15 mm deep, est. vol. 66 µL/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 (I) cm | 01-17134 | Piece |
| Spacers, gel partitioning, 1 mm thick, 12 (I) cm (2 No.) | 01-18131 | Set |
| Spacers, gel partitioning, 1.5 mm thick, 12 (I) cm (2 No.) | 01-18132 | Set |
| Spacers, plain with one edge rounded, 1 mm thick, (two pairs) length 13 cm | 01-18133 | Set |
| Spacers, plain with one edge rounded, 1.5 mm thick, (two pairs) length 13 cm | 01-18134 | Set |
| Notched and rectangular glass plates, 14 (w) x 13 (l) cm (two of each) | 01-28122 | Set |
| Notched and rectangular glass plates, 14 (w) x 13 (l) cm (two of each) rounded bottom edges for use with rounded spacers | 01-28123 | Set |
| Rectangular glass plates, 14 (w) x 13 (l) cm (four) | 01-28132 | Set |
| Rectangular glass plates, 14 (w) x 13 (l) cm (four) rounded bottom edges for use with rounded spacers | 01-28133 | 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 |
| Notched fibreglass plates [breakage resistant] (2 No.), rectangular glass plates (2 No.) rounded bottom edges for use with rounded spacers, and gel detacher (one) | 01-29122 | Set |
| Gel-detacher for fibreglass plate | 01-30115 | Piece |
| Gel-casting stand with binder clips | 01-33125 | Piece |
| Dual gel-casting stand, for variable gel thickness and number, for agarose free sealing, which fits 1-4 gels | 01-33100 | System |
| Dual gel-casting stand, for upto 2 gels, with agarose free sealing | 01-33010 | System |
| Dual gel-casting stand, for upto 4 gels, with agarose free sealing | 01-33020 | System |
| C shaped rubber gasket (for single gel of 1 mm) for use with Gel casting stand for agarose free sealing (2 nos.) | 01-33009 | Piece |
| C shaped rubber gasket (for single gel of 1.5 mm) for use with Gel casting stand for agarose free sealing (2 nos.) | 01-33109 | Piece |



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|--|-------------|------------|
| Item Description | Cat. No. | Unit |
| C shaped rubber gasket (for dual gel of 1 mm) for use with Gel casting stand for agarose free sealing (2 nos.) | 01-33010 | Piece |
| C shaped rubber gasket (for dual gel of 1.5 mm) for use with Gel casting stand for agarose free sealing (2 nos.) | 01-33110 | 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 |
| Minikin, CEU. Replacement part for single sided system of gel size 10 (w) x 12 (l) cm, with male connector | 01-01000 | Piece |
| Minikin, tank. Replacement part for single sided system of gel size 10 (w) x 12 (l) cm, with male connector | 01-02000 | Piece |
| Minikin, lid. Replacement part for vertical electrophoresis dual sided system | 01-02010 | Piece |
| | | |