

Biochemicals

Electrophoresis

Bioseparation

Life Sciences

Specials

BlueMarine Horizontal Submarine Electrophoresis Units

The BlueMarine electrophoresis units are applied to separation of nucleic acids in agarose gels. Most common applications are rapid screening of PCR fragments, analysis of restriction digests and plasmid preparations, checking *in vitro* transcripts etc.



User-friendly design

- Gels can be cast and run in the same tray (UV transparent) – easy to prepare, easy to start
- Gel casting gates – no taping, leak-free sealing gaskets with improved fit – insert the gaskets and pour the gel, no extra sealing step required
- 2-4 comb positions – for parallel analysis of maximum sample numbers
- Red contrasting stripes on the white support plate at all comb positions – simplifies loading of the gel by better visibility of the wells
- External handles – facilitate to move around the closed unit safely even when filled
- Choice of combs – different thickness and number of wells, combs for multichannel-pipette-loading and preparative combs
- Compact, durable, ergonomic design
- Safety lid provides correct orientation of electrodes
- Small buffer volume

BlueMarine units are designed for safe and easy handling and feature a rugged, most durable acrylic construction, ensuring a long-lasting lifetime. Doubly insulated cables are rated safe up to 3,000 volts. Gold plated electrical connectors are corrosion-free. The recessed power connectors are integrated into the safety lid. The new designed platinum electrodes can be easily replaced by the user.

Two different chamber sizes are available

BlueMarine 100

Gel format 7 x 10 cm for quick analysis of up to 28 samples. Contains main unit and also:

- 1 removable UV transparent gel tray (7 x 10 cm)
- 2 gel casting gates
- 1 comb (1.0 mm, 8 samples)

BlueMarine 200

Gel formats 15 x 15 cm or 15 x 20 cm for best resolution or high throughput analysis.

Contains main unit and also:

- 1 removable UV transparent gel tray (15 x 15 cm)
- 1 removable UV transparent gel tray (15 x 20 cm)
- 2 gel casting gates
- 2 combs (1.0 mm, 16 samples)

BluePower 500x4 Power Supply

The allround instrument serving many applications, e.g., submarine electrophoresis, SDS PAGE and blotting. BluePower 500x4 features 500 V, 1000 mA and 200 W. 4 x 2 outlets, programmable.



TECHNICAL NOTES

Electrophoresis

BlueMarine Horizontal Submarine Electrophoresis Units

Ordering Information

Accessories for BlueMarine 100 (gel width 7 cm)

| Product | Number of wells | Thickness of comb (mm) | Width of well (mm) | Depth of well (mm) | Cat. No. |
|-----------------------|-----------------|------------------------|--------------------|--------------------|---------------|
| Comb | 14 | 1.5 | 3.0 | 10 | BM-100-14-1.5 |
| | 14 | 2.0 | 3.0 | 10 | BM-100-14-2.0 |
| | 12 | 1.0 | 3.7 | 10 | BM-100-12-1.0 |
| | 12 | 1.5 | 3.7 | 10 | BM-100-12-1.5 |
| | 8 | 1.0 | 6.0 | 10 | BM-100-8-1.0 |
| | 8 | 1.5 | 6.0 | 10 | BM-100-8-1.5 |
| Preparative Comb | 1 | 2.0 | | | BM-100-P1-2.0 |
| Gel tray, 7 x 10 cm | | | | | BM-100-21 |
| Casting Gate, 2 pcs. | | | | | BM-100-31 |
| Replacement electrode | | | | | BM-100-41 |



BlueMarine 100

Ordering Information

Accessories for BlueMarine 200 (gel width 15 cm)

| Product | Number of wells | Thickness of comb (mm) | Width of well (mm) | Depth of well (mm) | Cat. No. |
|-----------------------|-----------------|------------------------|--------------------|--------------------|----------------|
| Comb | 10 | 1.0 | 12 | 10 | BM-200-10-1.0 |
| | 10 | 1.5 | 12 | 10 | BM-200-10-1.5 |
| | 10 | 2.0 | 12 | 10 | BM-200-10-2.0 |
| | 16 | 1.0 | 7 | 10 | BM-200-16-1.0 |
| | 16 | 1.5 | 7 | 10 | BM-200-16-1.5 |
| | 16 | 2.0 | 7 | 10 | BM-200-16-2.0 |
| | 20 | 1.0 | 5 | 10 | BM-200-20-1.0 |
| | 20 | 1.5 | 5 | 10 | BM-200-20-1.5 |
| Multich.-Pipette Comb | 31 | 1.0 | 3 | 10 | BM-200-M31-1.0 |
| | 26 | 1.0 | 4 | 10 | BM-200-M26-1.0 |
| | 26 | 1.5 | 4 | 10 | BM-200-M26-1.5 |
| | 26 | 2.0 | 4 | 10 | BM-200-M26-2.0 |
| Preparative Comb | 1 + 2 | 1.0 | 125 | 10 | BM-200-P2-1.0 |
| | 1 + 2 | 2.0 | 125 | 10 | BM-200-P2-1.0 |
| Gel tray, 15 x 15 cm | | | | | BM-200-15-2 |
| Gel tray, 15 x 20 cm | | | | | BM-200-20-2 |
| Casting Gate, 2 pcs. | | | | | BM-200-31 |
| Replacement electrode | | | | | BM-200-41 |

Accessories

Combs

- Variety of combs of all purposes, from multichannel pipette to preparative
- Up to 2 combs in parallel (BM 100)
- Up to 4 combs in parallel (BM 200)

Gel trays

- UV transparent
- With lifting aids to avoid contact with buffer
- Gels can be cast and run in the same tray
- Special casting gates seal the tray for casting

Casting gates

- Leak-free system
- Insert the gasket into the tray and pour the gel
- No extra sealing or taping step required

Electrodes

- Easy to clean
- Fast replacement if necessary

Ordering Information

| Product | Cat. No. |
|------------------------------|----------|
| BlueMarine 100 | BM 100 |
| BlueMarine 200 | BM 200 |
| BluePower 500x4 Power Supply | BP-500x4 |



BlueMarine 200

SERVA
Electrophoresis

SERVA Electrophoresis GmbH

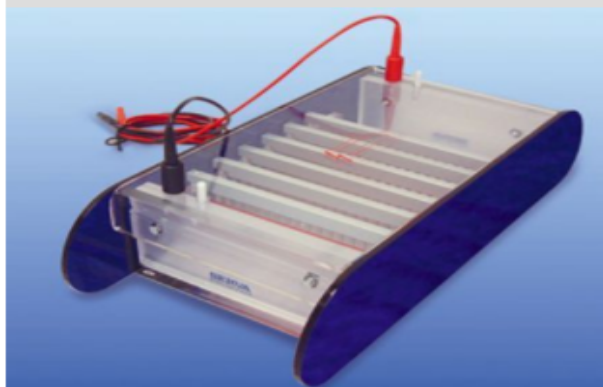
Carl-Benz-Str. 7 · D-69115 Heidelberg · Germany

Phone: +49 (0) 6221 13840-0 · Fax: +49 (0) 6221 13840-10

E-Mail: info@serva.de · Internet: www.serva.de



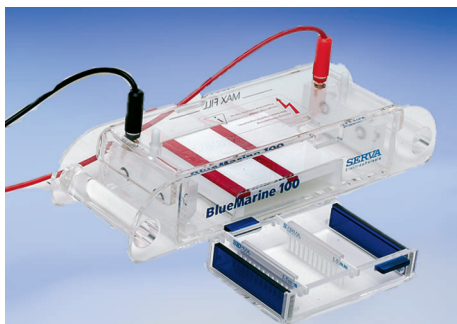
Equipment Submarine



BlueMarine™ 100

HS 90272000

Gel format 7 x 10 cm for quick analysis of up to 28 samples. Contains main unit, 1 removable UV transparent gel tray (7 x 10 cm), 2 gel casting gates, 1 comb (1.0 mm, 8 samples).



Operational Data

Maximum operating voltage: 300 V
 Maximum operating current: 200 mA
 Approx. gel volume (5 mm gel): 35 ml
 Possible comb positions: 2
 Maximum of loadable samples: 28
 Electrode separation: 18 cm
 Recommended volts per cm: 14 - 140

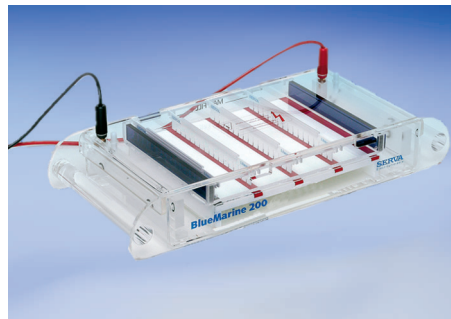
BlueMarine™ is a trademark of SERVA.

| Cat.No. | Size |
|---------|---------|
| BM-100 | 1 piece |

BlueMarine™ 200

HS 90272000

Gel formats 15 x 15 cm or 15 x 20 cm for best resolution or high throughput analysis. Contains main unit, 1 removable UV transparent gel tray (15 x 20 cm), 1 removable UV transparent gel tray (15 x 15 cm), 2 gel casting gates, 2 combs (1.0 mm, 16 samples).



Operational Data (Tray: 15 x 15 cm / 15 x 20 cm):

Maximum operating voltage: 500 V / 500 V
 Maximum operating current: 300 mA / 300 mA
 Approx. gel volume (5 mm gel): 115 ml / 150 ml
 Possible comb positions: 2 / 4
 Maximum of loadable samples: 62 / 124
 Electrode separation: 28.5 cm / 28.5 cm
 Recommended volts per cm: 20 - 200 / 20 - 200

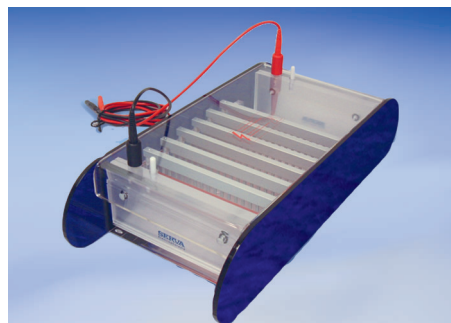
| Cat.No. | Size |
|---------|---------|
| BM-200 | 1 piece |

BlueMarine™ HTS

HS 90272000

Gel format 17.5 cm x 19.2 cm for high resolution long runs of single samples or analysis of complete 96-well microtiter plates. By changing the left/right orientation of the comb you can position the sample wells one upon the other or shifted to each other.

Contains main unit, 1 removable UV transparent gel tray, 2 aluminum gel casting gates, 6 aluminum combs with 17 sample wells.



Operational Data:

Maximum operating voltage: 500 V
 Maximum operating current: 300 mA
 Approx. gel volume (5 mm gel): 160 ml
 Possible comb positions: 6
 Maximum of loadable samples: 102
 Electrode separation: 28.5 cm
 Recommended volts per cm: 20 - 200 V
 Dimensions (W x L x H): 19.5 x 38 x 80 cm

| Cat.No. | Size |
|---------|---------|
| BM-HTS | 1 piece |