

# SUB20 Maxi-Standard and SUB20C Maxi-Cooled Submarine Gel Electrophoresis Units

**Ideal for high resolution analytical and preparative studies of nucleic acids**



SUB20

The SUB20 Maxi-Standard Submarine Electrophoresis Unit provides a 20 x 20 cm gel-running tray with four comb positions which allows the user to perform high-resolution analytic research for a maximum of 168 samples. The SUB20C Maxi-Cooled Submarine Electrophoresis Unit has the same efficient design as the SUB20 with the addition of a cooling base that can be connected to a recirculation bath allowing high voltage electrophoretic separations without overheating.



SUB20C

NUCLEIC ACID ELECTROPHORESIS

## Features and Benefits

**Large format**—20 x 20 cm gel tray is ideal for high resolution techniques

**Multichannel pipette compatible combs**—with a maximum 40 sample throughput—reduce gel loading time

**Color-coded and height adjustable combs**—easily identify comb thickness at a glance and control well depth

**Buffer recirculation ports**—may be connected to a peristaltic pump for buffer recirculation during electrophoresis to maintain buffer pH and prevent ionic gradient formation

**Colored loading strips**—for easy well detection when loading

**UV-transparent running tray**—allows the user to image the gel without risk of damage due to handling

**Side handles**—for safe and easy transportation around the laboratory

## Technical Specifications

|                             |                       |
|-----------------------------|-----------------------|
| Gel Dimensions (w x l)      | 20 x 20 cm            |
| Maximum Buffer Volume       | 2.2 L                 |
| Maximum Power Settings      | 1000 V, 500 mA, 500 W |
| Maximum Sample Capacity     | 160                   |
| Maximum Running Temperature | 45°C                  |
| Indoor Use                  | 4-40°C                |
| Humidity                    | Up to 80%             |
| Unit Dimensions (w x l x h) | 27 x 47.5 x 8 cm      |
| Safety Certifications       | EN61010-1, CE         |

## Ordering Information

| Cat. # | Description                      |
|--------|----------------------------------|
| SUB20  | Maxi-Standard Submarine Gel Unit |

### Includes:

- Buffer Chamber Assembly
- Safety Lid
- High Voltage Leads
- Running Tray w/Casting Gates
- 1 mm thick, 16 well combs—2 pcs
- Colored Loading Strips
- Buffer Recirculation Ports—2 pcs

| Cat. # | Description                                     |
|--------|---|
| SUB20C | Maxi-Standard Submarine Gel Unit w/Cooling Base |

### Includes:

- Buffer Chamber Assembly w/Cooling Ports
- Safety Lid
- High Voltage Leads
- Running Tray w/Casting Gates
- 1 mm thick, 16 well combs—2 pcs
- Colored Loading Strips
- Buffer Recirculation Ports—2 pcs

# SUB20 Maxi-Standard and SUB20C Maxi-Cooled Submarine Accessories and Replacement Parts

## Additional Features and Benefits of the SUB20C

Cooled base—covering the entire 20 x 20 cm gel tray—allows separations to be performed faster and at higher voltage, without loss of resolution

Cooling ports—connect the cooled base to an optional chiller for enhanced cooling.

## SUB20 Combs

| Cat. #          | # of Wells | Thickness (mm) | Well Width (mm) | Volume in 5 mm Deep Well (µl) |
|-----------------|------------|----------------|-----------------|-------------------------------|
| SUB20-C1-16     | 16         | 1              | 8.5             | 35                            |
| SUB20-C1.5-16   | 16         | 1.5            | 8.5             | 55                            |
| SUB20-C2-16     | 16         | 2              | 8.5             | 75                            |
| SUB20-C1-20MC   | 20*        | 1              | 7               | 30                            |
| SUB20-C1.5-20MC | 20*        | 1.5            | 7               | 45                            |
| SUB20-C2-20MC   | 20*        | 2              | 7               | 60                            |
| SUB20-C1-28     | 28         | 1              | 5               | 20                            |
| SUB20-C1.5-28   | 28         | 1.5            | 5               | 30                            |
| SUB20-C2-28     | 28         | 2              | 5               | 40                            |
| SUB20-C1-40MC   | 40*        | 1              | 3               | 13                            |
| SUB20-C1.5-40MC | 40*        | 1.5            | 3               | 19                            |
| SUB20-C2-40MC   | 40*        | 2              | 3               | 25                            |

\*Microtiter spacing for use with a multichannel pipette

## Accessories and Replacement Parts

| Cat. #      | Description                             |
|-------------|---|
| SUB20-TANK  | Buffer Chamber Assembly                 |
| SUB20C-TANK | Buffer Chamber Assembly w/Cooling Ports |
| SUB20-LID   | Lid for SUB20 and SUB20C                |
| SUB20-UT    | 20 x 20 cm Running Tray w/Casting Gates |
| SUB20-CG    | Casting Gates w/Silicone Gasket—2 pcs   |
| SUB20-CS    | Colored Loading Strips—6 pcs            |
| SUB20-GS    | Gel Scoop for SUB20                     |
| SUB-LEAD    | Replacement High Voltage Leads          |
| SUB-SG      | Silicone Gasket, 1 meter                |
| SUB-BRP     | Buffer Recirculation Ports—2 pcs        |

## SUB20 Casting Gates

The included casting gates conveniently and efficiently seal the running tray without the hassles of using tape.



SUB20-LID



SUB20-UT



SUB20-TANK



SUB20C-TANK