PCR Workstations

Polymerase chain reaction (PCR) is a technique, which is used to amplify several fold a specific region of DNA of interest. This technique can be used to identify DNA sequence specific to viruses and / or bacteria causing diseases.

As PCR is capable of amplifying as little as a single molecule of DNA, precautions should be taken to guard against contamination of the reaction mixture with even trace amounts of foreign DNA that could serve as template.

The PCR Workstation is designed to protect against contamination in sensitive PCR amplification reactions in the following ways:

1. The convenient table top model, **Mini PCR Workstation** (Cat # 107211), is fitted with an UV lamp. It can accommodate 96 well microtube rack with micro tubes, PCR microplate, PCR pipette, tips, gloves, etc., for UV irradiation.

2. The **Midi PCR Workstation** (Cat # 107214) is fitted with two 15W UV Germicidal lamp (254 nm) and one fluorescent lamp. Dual UV Bulbs deliver twice the intensity of UV light than that of the single, and will help irradiate areas that might otherwise be inaccessible. The Dual UV bulb format is recommended when the researcher desires to use the Workstation to decontaminate apparatus and reagents.

3. UV irradiation of working materials prior to use, blocks replication of contaminating DNA sequences by causing adjacent pyrimidines to undergo dimerization.

4. Protection against cross or airborne contamination can help to get excellent PCR results.

Technical Information:

Specification	107211	107214
Working Space(WxD)	29x13 cm	45x60x30 cm
UV Lamp	1 no. (6W)	2 nos. (15W)
White Light	- x-	1 no.

PCR Submarine Electrophoresis System with power supply

(With combs for Multi-Channel Pipettor Loading)

PCR Electrophoresis System with power supply EPS 500 (Cat # 106621)

This system is suitable for PCR Submarine electrophoresis in agarose gels and is provided with 30 slots for preferential loading of PCR samples, using multi-channel pipette. In this technique, the entire gel is submerged in the buffer. UV Transparent Gel running tray offers easy gel viewing in Transilluminator.

Description: Basic unit with lid (1 Set), Platinum Electrode Assembly Removable (2 Nos.), Gel Casting Kit (containing UV Transparent gel running tray 270 x 200 mm and Gel casting tray) (1 Set), 30 well comb 1.5 mm (2 Nos.,) Connecting cord (2 Nos.), and instruction manual.

Power Supply Description:

GeNei™ DIGITAL PS 500 (Power Supply):
Input AC 230 V, Output DC voltage 0-500V, Max. output current 0-500 mA with timer.