

Revision:	Document Code: WI- ML-103	Document Title: Standard Operating Procedure (SOP) for PCR Hood or Workstation	 دانشگاه علوم پزشکی و خدمات بهداشتی و درمانی آستان قدس دانشگاه پزشکی
-----------	------------------------------	--	--

1. Objective:

To define the operational procedures for the PCR workstation (PCR hood) to ensure a sterile environment for Polymerase Chain Reaction (PCR) procedures.

2. Scope:

This equipment is designed to create a controlled, sterile environment to prevent sample cross-contamination, thereby ensuring high accuracy and reliability in PCR experimental results.

3. Responsibility:

The responsibility for implementing this procedure lies with the designated laboratory experts.

4. Operating Procedure:

- **Preparation:** Before starting any procedure, thoroughly decontaminate all internal surfaces of the workstation using an appropriate disinfectant (e.g., 10% household bleach or 70% ethanol).
- **UV Sterilization:**
 - Activate the UV lamp for 20 minutes prior to starting the work to ensure a sterile environment.
 - Upon completion of the work, perform another 20-minute UV sterilization cycle.
- **Personal Protection:** Laboratory gloves must be worn at all times while working inside the workstation.
- **Sample Protection:**
 - Keep the workspace uncluttered; do not place any unnecessary items or equipment inside the hood to minimize the risk of contamination.
 - Adhere strictly to all specific settings and calibration parameters provided by the manufacturer.
- **Post-Operation:** After finishing the work, clean the workspace thoroughly and initiate the final UV sterilization cycle as described above.

تاریخ اجرا:	تصویب کننده:	تأیید کننده: دکتر محمدرضا عربستانی	تهیه کننده: مسعود مقدم شکیب
تاریخ بازنگری:	سمت:	سمت: مدیر گروه میکروبیشناسی	سمت: کارشناس آزمایشگاه
شماره صفحه: ۱ از ۲	تاریخ و امضاء:	تاریخ و امضاء:	تاریخ و امضاء: