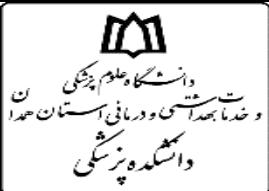


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Standard Operating Procedure (SOP): 70-Liter Autoclave (Reyhan Teb)

1. Objective

To define the standard operating procedure for the operation and maintenance of the 70-liter autoclave manufactured by Reyhan Teb for the effective sterilization of laboratory equipment and culture media.

2. Scope

This procedure applies to the sterilization process, utilizing pressurized steam to eliminate all microbial forms, including spores, from inanimate items.

3. Responsibility

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

4. Operating Procedure

- Preparation:**
 - Open the lid, remove the basket, and fill the chamber with water up to the **MAX** mark.
 - Place items into the basket, return the basket to the chamber, and secure the lid.
- Standard Operation:**
 - Switch the **ON/OFF** button to **ON**.
 - Press **START** to initiate the automatic sterilization cycle.
- Customizing Sterilization Time:**
 - With the device **ON**, press **SET** until the timer display appears.
 - Use the **UP/DOWN** keys to adjust the desired duration.
 - Press **SET** three times to save the setting and return the display to the temperature reading mode.
- Monitoring & Completion:**
 - During operation, the **WATER** and **HEATER** lights will be on.
 - Upon reaching **121.5°C**, the **HEATER** light turns off, the **ST STRIL** light illuminates, and the timer begins to count down.
 - Press **DOOR/TIME** to view the remaining sterilization time.
 - Upon completion, an audible intermittent alarm sounds, the display shows **“End of sterile”**, and the **END STRIL** light turns on.
- Post-Cycle:**
 - Power off the device.
 - Open the steam release valve on the lid.
 - Wait until the pressure gauge reads zero before opening the lid.

5. Safety Precautions

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- **Loading:** Arrange items for optimal steam circulation; avoid overfilling.
- **Prohibited Items:** Never autoclave corrosive, volatile, solvent-based, or radioactive materials.
- **Sealing:** Verify the lid is correctly sealed and locked before starting the cycle.
- **Opening:** Open slowly and keep your face/head away from the steam path.
- **Glassware:** Loosen caps on glass containers to prevent pressure-induced breakage.
- **Materials:** Use only heat-resistant, autoclave-safe containers.

6. Maintenance and Care

- **Lid Operation:** To open, unscrew the seven movable knobs, then turn the central fixed knob until the lid rises 2 cm. To close, reverse this process, tightening the fixed knob first, followed by the others.
- **Power & Water:** Connect directly to a wall outlet. Always check water levels before use. Use **distilled water** to prevent mineral scaling and electrical faults.
- **Error Handling:** If the temperature fluctuates outside safe parameters, an audible alarm will sound and an error code will display:
- **Error II:** Low Temperature
- **Error III:** High Temperature
- **General Maintenance:**
- The automatic air purge valve on the lid removes excess air throughout the cycle.
- **Pressure Warning:** Never force the lid open if the pressure gauge is not at zero.
- **Media Preservation:** Allow the unit to cool completely before opening to prevent liquid loss from culture media.
- Always refer to the manufacturer's manual for specific troubleshooting if persistent issues arise.

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