

Revision: ----	Document Code: WI- ML-2194	Standard Operating Procedure (SOP) for Aqua Incubator	 دانشگاه گجرات و خدای بزرگ و درانی آستان خدا والله اعلم بالصواب
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Operating and Maintenance Instructions: Aqua Incubator

1. Purpose

To define the standard operating procedure for the Aqua incubator to ensure precise temperature control for microbial cultivation.

2. Scope of Application

The device is designed to maintain temperatures within the range of 20°C to 65°C .

3. Responsibility

Laboratory experts are responsible for the correct implementation of these procedures.

4. Operating Procedures

- Power & Control:** Turn on the unit using the power switch. Adjust the desired temperature (within the 20°C – 65°C range) using the rotary dial.
- Operational Range:** The effective temperature range is 5°C above ambient temperature up to 65°C .
- Environmental Requirements:** For optimal temperature stability, the ambient temperature must not exceed 30°C .
- Humidity:** A relative humidity of up to 40% can be maintained by placing a water-filled tray or beaker inside the chamber.

5. Safety Precautions

- Operational Integrity:** Ensure the door is properly closed at all times to prevent temperature fluctuations; minimize the time the door remains open.
- Sample Placement:** Securely arrange samples on the provided shelves or trays.
- Electrical Safety:** Always disconnect the device from the power source before cleaning or performing maintenance.
- Contamination Control:** Before any repair, ensure the unit has been thoroughly decontaminated, cleaned, and unplugged.

6. Maintenance Guidelines

- Efficiency:** Close the door immediately after use to prevent heat loss.
- Humidity Management:** Keep a beaker or container of water inside the incubator to sustain the required humidity levels.

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- **Cleaning & Disinfection:**
- Perform thorough cleaning/disinfection monthly, and immediately following any infectious spills, using a 10% hypochlorite solution or Deconex.
- Clean interior and exterior surfaces using a soft cloth and a mild, non-abrasive cleaning agent.
- **Caution:** Prevent contact between cleaning agents and electrical components. Ensure the unit is completely dry before reconnecting to the power supply.

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