

Revision : ----	Document Code: WI- ML- 2196	Document Title: Standard Operating Procedure (SOP) for Thelco Laboratory Oven	 جمهوری اسلامی ایران وزارت بهداشت، درمان و آموزش پزشکی دانشکده پزشکی
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1. Purpose

To describe the standard operating procedure for the use of the **Thelco Dry Heat Sterilizer** (Made in Iran).

2. Scope of Operation

Disinfection and sterilization of laboratory equipment and metal instruments sensitive to moisture.

Temperature Range: 0°C to 100°C .

3. Responsibility

The implementation of this procedure is the responsibility of the relevant laboratory experts.

4. Operating Procedure

- Turn on the device using the **Power** switch.
- Use the **rotary knob** to set the desired temperature.
- Open the door and place the materials and instruments to be sterilized inside the chamber.
- Once the cycle is complete, press the **Power/Off** button to turn off the device.
- After the device has cooled down completely, open the door and remove the sterilized materials and instruments.

5. Safety Instructions

- **Electrical Safety:** Ensure all electrical appliances, including the oven, are connected to outlets equipped with proper **grounding (Earth)**.
- **Load Management:** Do not connect two or more ovens to a single electrical outlet.
- **Power Failure Protocol:** In the event of a power outage, **never** connect the oven to outlets supplied by an emergency power system or **UPS**. (Connecting a high-load device to a UPS can cause an overload and damage the system).
- **Burn Prevention:** To prevent potential burns, never place your face or other sensitive body parts close to the door while opening the oven.
- **Hazardous Materials:** Do not use flammable or explosive substances inside the oven.
- **Corrosion Prevention:** Prevent the splashing of acidic solutions or the release of corrosive vapors inside the chamber to avoid damaging the internal surfaces and shelving.
- **Personal Protective Equipment (PPE):** When removing items from the oven, always wear appropriate PPE, including **heat-resistant insulated gloves** and **safety goggles** (or eye protection).

6. Maintenance

- **Service Schedule:** The device requires a **periodic inspection every six months** and a **thorough cleaning every month**.
- **Pre-Cleaning:** Always disconnect the oven from the power outlet before cleaning.

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تاریخ بازنگری:	سمت:	سمت: مدیر گروه میکروب شناسی	سمت: کارشناس آزمایشگاه
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- **Cleaning Method:** Clean both the internal and external surfaces of the oven using a cloth moistened with a **mild detergent solution**.
- **Surface Care:** Use only cleaning agents that **do not cause scratches** on the surfaces.
- **Electrical Protection:** Avoid any contact between cleaning agents and the device's electrical components/structures.
- **Reconnection:** Before reconnecting the oven to the power supply, ensure that the interior of the oven is completely dry.

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