

CKDu Information and Research Centre

Standard Operation Procedure

Muffle Furnace

1. Introduction

1.1. Purpose

To provide a standard operation procedure for the operation of Muffle Furnace.

1.2. Scope

Applicable to Muffle furnace located in CKDu Centre.

2. Materials

- Muffle furnace
- Crucibles

3. Procedures

3.1. Cleaning

- Check that the power supply to the instrument is switched "OFF."
- Ensure that the Muffle Furnace is not in hot condition or in operation while cleaning.
- Clear the instrument externally with clean dry cloth.

3.2. Operating

- Ensure that the instrument is connected to the power supply.
- Switch on the instrument by ON position which leads to activation of green control bulb and the temperature control.
- Set the temperature required by pressing and holding the up and down buttons to set the required temperature and release the button.
- The white and green colors on the digital displays indicate the actual and set temperatures of the furnace, respectively.
- Please ensure that the air conditioner is switched off and the exhaust fans are switched on.

4. Precautions

- Do not give a shock to the Muffle furnace.
- Do not connect anything other than the specified equipment to the connector on the rear side of the muffle furnace.
- **Do not heat any flammable material or combustible materials inside the Muffle furnace.**
- **Do not attempt to open the door unless the temperature is lower than 100°C.**
- **Use thermal gloves or tongs to remove crucibles in the Muffle Furnace.**

