

 <p>BLDEA'S Shri Sanganabasava Mahaswamiji College of Pharmacy &amp; Research Centre Vijayapur 586103</p>	DEPT: PHARMACEUTICAL CHEMISTRY INSTRUMENT: HOT PLATE MAKE: Rolex MODEL: 164 PROCURED ON: 20-05-2010	SOP NO: BCP/PC/SOP/025
	SUBJECT: <b>SOP FOR HOT PLATE</b>	PAGE NO.: 01
		EFFECTIVE DATE: 01/01/2022
		REVIEW PERIOD: 31/12/2022

### **Objective:**

The following SOP describes the use and maintenance of Hot Plate through proper installation, regular monitoring and maintenance.

### **Scope:**

Hot plate heats the reaction mixture during synthesis/recrystallization procedure and used for quick heating with mechanical stirring for inflammable chemicals and during recrystallization.

### **Procedure:**

1. Keep the reaction vessel or conical flask with reactants/solvent on the plate.
2. Switch ON the main power supply and instrument mains.
3. Allow around 10 minutes for hot plate and liquid temperature of reaction mixture to stabilize.
4. Put thermometer and check the temperature of reaction mixture/solvent.
5. If necessary, adjust the temperature by adjusting the thermostat.
6. If required temperature is reached, maintain the temperature by continuously stirring mixture using glass rod/ mechanical swirling do re-crystallization/reaction according to procedure.
7. After using, switch **OFF** the instrument mains & main power supply and let the hot plate to cool and display board **DO NOT TOUCH** until it is cooled completely.

**Precaution:**

- Do not add any chemicals to reaction mixture while heating on hot plate. If required, cautiously take vessel from hot plate and put chemicals on working table and then keep hot plate.
- If any chemical spilled accidentally on hot plate immediately wipe out using cloth/silicone brush.
- Do not touch the hot plate and keep it clean after use.

	<b>PREPARED BY</b>	<b>CHECKED BY</b>	<b>APPROVED BY</b>
<b>NAME and DESIGNATION</b>	Ms.Hasti.Kenia Assistant professor	Dr. S.M.Metri Associate Professor	Dr.B.Shivakumar Professor & Head
<b>SIGNATURE &amp; DATE</b>			