

 <p>BLDEA'S Shri Sanganabasava Mahaswamiji College of Pharmacy & Research Centre Vijayapur 586103</p>	DEPT: PHARMACEUTICAL CHEMISTRY	SOP NO.: BCP/PC/SOP/008
	INSTRUMENT: ROTARY EVAPORATOR.	PAGE NO.: 01-02
	MAKE: HEIDOLPH MODEL: Hei.VAP.core PROCURED ON: 10-07-2020	EFFECTIVE DATE: 01/01/2022
	SUBJECT: SOP FOR ROTARY EVAPORATOR	REVIEW PERIOD: 31/12/2022

Objective:

The following document describes the standard operating procedure for Rotary Evaporator.

Scope:

The Rotary Evaporator is a tool which puts the separable substance under vacuum and heats evenly through a spinning motion, causing one component to evaporate and leaving the other component behind.

Procedure:

1. Plug in to ensure the power supply.
2. Switch **ON** the main power supply and instrument mains.
3. Ensure that water bath is filled with fresh water and is up to the mark.
4. Also ensure that the chiller and vacuum are functioning properly.
5. Once the condenser is running with the cooling mixture and the temperature is maintained, load the sample for separation.
6. Remove the evaporator flask from the base of the condenser, directly above the hot bath. Inspect the flask to ensure it is clean.
7. Load your sample into the cleaned evaporator flask.
8. Attach the evaporator flask to the condenser and fix it to the position with the help of clamp.
9. Inspect the collection flask located to the left of the hot bath, and below the condenser. Make sure the flask is clean and free of any solvent before use.
10. Set the **TEMPERATURE** of the water bath by rotating the temperature knob.

11. Set the **ROTATION SPPED** of the evaporator flask by turning the rotating speed knob.
12. Bring the evaporator flask down so that it is submerged in the water bath accurately
13. When all the specifications have been made, press the dial on the rotary evaporator control panel in. The rotary evaporator will begin to rotate.
14. To stop the rotary evaporator, push the dial on the rotary evaporator control panel in again. The rotary evaporator will stop spinning then.
15. After using, **TURN OFF** the temperature, rotation, chiller and vacuum using the power switch.

Precautions:

- Fill the evaporator flak upto 50% of the volume **ONLY** so as to prevent bumping of contents during evaporation.
- Monitor the pressure of the vacuum by releasing the pressure by rotating the pressure knob.
- Set appropriate speed for rotation. **DO NOT** set high speed.

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