


STANDARD OPERATING PROCEDURE OF ULTRASONIC SONICATOR

 <p>BLDEA'S Shri Sanganabasava Mahaswamiji College of Pharmacy & Research Centre Vijayapur 586103</p>	DEPARTMENT: PHARMACEUTICS	SOP NO: Company Name: Spectra lab Model no: UCB 30
	AREA: PHARMACEUTICS LAB	PAGE NO: 1-2
	SUBJECT: SOP FOR ULTRASONIC SONICATOR	EFFECTIVE DATE: 25/2/2022
		REVIEW PERIOD: 25/2/2023

Purpose:

To provide a procedure for the operating of Ultrasonic Sonicator

Scope:

Applicable to operation of Ultrasonic Sonicator

References:

Instrument Manual

Safety Issues and Precautions:

- Wore Head cap, Mask, Hand gloves and other safety requirements during the performance of stated activity
- Please make the entry of Usage with require details in the Instrument log book
- Handle the Instrument properly with care
- After using the apparatus please clean the instrument and accessories and keep it clean
- Fill the ultrasonic bath to the top edge up to 10-20mm from the top line
- Do not boil water and pour into the bath.
- Metal must not touch the bottom of the bath.
- Care must be taken to empty the bath and clean the bottom of metal parts.
- The bath should rest between cleaning cycles.

Procedure:

- 1) Ensure that working area and instrument is clean.
- 2) Ensure that instrument is connected to the power supply.
- 3) Ensure that the distilled water is filled in ultrasonic bath up to 1/4th of the total depth.
- 4) If water is hazy, drain the water from outlet valve provided on the right side of the instrument and replace with fresh distilled water.
- 5) Switch on the power supply and set the timer by rotating knob.
- 6) Place the prepared solution in sonicator and keep it for few minutes until the substance gets dissolved or the homogeneity of the solution occurs as required.
- 7) After sonication switch off the instrument.

Maintenance:

- 1) Water should be changed every day.
- 2) Use distilled water to avoid scaling.

	PREPARED BY	CHECKED BY	APPROVED BY
NAME	Mrs. Ashwini S. Gudigenavar	Mr. A B. Walikar	Dr. S C. Marapur
DESIGNATION	Asst. professor	Asst. Professor	Professor & Head
DEPARTMENT	Pharmaceutics	Pharmaceutics	Pharmaceutics
SIGNATURE & DATE			