STANDARD OPERATING PROCEDURE OF WATER BATH

	DEPARTMENT:	SOP NO:
OF PHARMACY &	PHARMACEUTICS	Model No: BTL
Solle Real	March 1997 August 1997 August 1997	Company Name:
COLLEGE OF PHARMACY & RESEARCE	AREA:	Biotechno Lab
	PHARMACEUTICS LAB	PAGE NO: 1 -3
STATE	SUBJECT:	EFFECTIVE DATE:
9	SOP FOR WATER BATH APPARATUS	25/2/2022
BLDEA'S Shri Sanganabasava		REVIEW PERIOD:
Mahaswamiji College of		25/2/2023
Pharmacy & Research Centre		Sol
Vijayapur 586103		20

Purpose:

To provide a procedure for the operating of Water Bath

Scope:

Applicable to operation of Water Bath

References:

Instrument Manual

Safety Issues and Precautions:

- Were Head cap, Mask, Hand glows 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

Procedure:

- 1) Operation (Precision Scientific Model 183 only)
- 2) Before filling, check the power switch and make sure that it is in the "OFF" position.
- Fill the bath with distilled water, making allowance for displacement by the sample(s) being immersed and for expansion of the media upon reaching operating temperature.

- 4) The maximum liquid level should be 1 1/2" from the top surface of the bath after sample(s) are immersed.
- 5) The bath is supplied with a thermometer and O-ring. The thermometer is attached to the bath via a metal clip on the top of the bath.
- 6) The thermometer should be inserted until the immersion depth indicator line is at or below the Water surface. The thermometer bulb should always be located above the diffuser shelf.
- Insert the line cord into the proper receptacle and turn the power switch to the "ON" position.
- 8) This action will energize the heater and cause the amber pilot lamp to light. The pilot lamp will stay lit as long as the heater(s) is energized. NOTE: Do not leave the bath unattended during the setting procedure.
- 9) Turn both the Temperature Control and High Temperature Limit thermostat knobs fully Clockwise. The temperature control pilot lamp should light.
- 10) When the bath temperature reaches the desired temperature, slowly turn the High Temperature
- 11) Limit Thermostat counterclockwise and stop when the High Temperature Limit Pilot Lamp just lights.
- 12) Turn the High Temperature Limit Thermostat Knob clockwise to the next highest reference number. The High Temperature Limit light should go off. The High Temperature Limit thermostat is now set approximately 5° above the desired bath temperature.
- 13) Turn the Temperature Control Thermostat counterclockwise until both pilot lamps are off.
- 14) Turn the Temperature Control Thermostat clockwise until the Temperature Control pilot lamp just lights. Allow the unit to stabilize, readjust/fine tune the Temperature Control thermostat as necessary.
- 15) Controls (VWR Model 1250 only)
- 16) Power Switch The main ON/OFF switch on the panel controls power to the unit

- 17) Main Temperature Controller Located at left of panel, this clutch-set control is marked PUSH & TURN TO SET LIMIT, and monitors water bath temperature. This is completely independent of the Main Controller which would allow the temperature to rise past the set point. If the temperature rises to the safety set-point, the Safety takes over control of the heating element and allows continued use of the bath until service can be arranged.
- 18) Cycle Lamp This light is ON when the Main Controller is functioning and the unit is heating normally.
- 19) Safety Lamp Light comes ON when the high limit is reached and the Safety has acted to shut down the heating element until the set temperature is again stabilized.

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