



# PHARMA DEVILS

MICROBIOLOGY DEPARTMENT

## STANDARD OPERATING PROCEDURE

**Title:** Cleaning, Calibration and Operation of Serological Water Bath

<b>SOP No.:</b>		<b>Department:</b>	Microbiology
		<b>Effective Date:</b>	
<b>Revision No.:</b>	00	<b>Revision Date:</b>	
<b>Supersede Revision No.:</b>	Nil	<b>Page No.:</b>	1 of 3

### 1.0 OBJECTIVE

To lay down procedure for cleaning, calibration and operation of serological water bath.

### 2.0 SCOPE

This SOP is applicable for serological water bath, Make - Electron in Quality Control Department.

### 3.0 RESPONSIBILITY

Prepared by - Executive Quality Control

Checked by - Assistant Manager Microbiology / QC

Approved by - Head QA, QC

### 4.0 PROCEDURE

#### 4.1 Operation

- 4.1.1 Open the lid of water bath along with concentric rings.
- 4.1.2 Fill the water bath with purified water till the level of heating elements gets fully immersed.
- 4.1.3 Place the water bath lid over the water bath and place the concentric rings as suitable to rest the conical flask/beaker etc.
- 4.1.4 Connect the connecting cord of water bath to the main supply.
- 4.1.5 Switch on the main supply.
- 4.1.6 Switch on the water bath by pressing the button.
- 4.1.7 The display will show the actual temperature of water bath.
- 4.1.8 Set the desired operating temperature by pressing the SET point and turn the knob of controller clockwise until the required set point appears on panel.
- 4.1.9 Release the SET switch and again the display will show the actual temperature of water bath.
- 4.1.10 Allow the temperature rising for some time to get stabilized at pre-set operating temperature.
- 4.1.11 In case of inaccurate temperature indications, check the set point. If the set point is deviated set it again.
- 4.1.12 Before operating the water bath wait for the temperature reading to stabilize.
- 4.1.13 Place the sample container dully filled with the sample solutions on the concentric rings.
- 4.1.14 Close the rings with the lid in case no sample is placed.
- 4.1.15 Continue heating till the desired result is obtained.
- 4.1.16 Switch off the main supply after the completion of test.



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### 4.2 Cleaning

- 4.2.1 Insure that the power supply to the water bath is switched off and main cord is removed from the supply.
- 4.2.2 Wipe the water bath with a clean wetted with disinfectant everyday.
- 4.2.3 Before operating the water bath, check that the water is filled up to the mark in the water baths.

### 4.3 Calibration

- 4.3.1 Digital display units are to be calibrated once in six months by service contractors.
- 4.3.2 Temperature mapping of the water bath by using thermometers is to be done once in six months and thermometer is to be calibrated once in six month by service contractors.
- 4.3.3 Place a calibrated thermometer in water bath and let the temperature to stabilize.
- 4.3.4 After the temperature has stabilized on PV display check the temperature of thermometer, placed in the water bath.
- 4.3.5 Acceptance criteria for temperature is of  $\pm 2^{\circ}\text{C}$  with that of set temperature.
- 4.3.6 Maintain the calibration record of serological water bath as per Annexure - I.

### 4.4 Frequency

Frequency for calibration of water bath is once in six month.

### 5.0 SAFETY & PRECAUTIONS

- 5.1 Make sure to remove electrical connections before any maintenance or cleaning.
- 5.2 Never switch on the water bath with out water.

### 6.0 REVISION HISTORY

Revision No.	Reason for Revision	Superseded from & date
00	First Issue	-----

### 7.0 REFERENCES

Not applicable.

### 8.0 ABBREVIATIONS

SOP : Standard Operating Procedure

### 9.0 ANNEXURES

**Annexure - I** : Calibration record of serological water bath

