



STANDARD OPERATING PROCEDURE

Department: Quality Control	SOP No.:
Title: Operation and Calibration of Water Bath	Effective Date:
Supersedes: Nil	Review Date:
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1.0 OBJECTIVE:

To lay down a procedure for Operation and Calibration of Water Bath.

2.0 SCOPE:

This SOP is applicable to the Operation and Calibration of water bath in the Quality Control Department.

3.0 RESPONSIBILITY:

Officer, Executive- Quality Control Department.

Head - Quality Control Department.

4.0 DEFINITION(S):

NA

5.0 PROCEDURE:

Make: Branson , Model: 5510

5.1 Operation:

5.1.1 Ensure that instrument is clean and free from dust.

5.1.2 Clean and fill the water bath with Raw water upto ¾th level.

5.1.3 Put the main switch ON.

5.1.4 Set the required temperature by moving the thermostat in clock wise direction (0 – 100)

5.1.5 Allow the bath to reach the set temperature. The DTC cum Indicator will Indicate the actual temperature of the water.

5.1.6 Immediately set the desired temperature by pressing the PRESS to SET switch & adjusting the SET pot.

5.1.7 Approx. 1°C before the set temperature, the heater will start going on & Off. Heater action is indicated on Digital Temperature Controller cum Indicator (DTC). Allow a few minutes for



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the temperature to stabilize.

5.1.8 If the indicated temperature is less than desired, turn the fine tuning pot on digital temperature controller cum indicator (DTC) clockwise or vice versa.

5.1.9 After finishing the work, switch off the instrument & allow the bath to cool down to ambient temperature.

5.1.10 If instrument is out of calibration, affix “UNDER MAINTENANCE” label on the instrument and call for service engineer.

5.2 Cleaning:

5.2.1 After Usage, clean the Instrument properly with cotton cloth.

5.2.2 Cleaning should be done with water Frequently.

5.3 Precaution:

5.3.1 Ensure that during heating, heater coil is always immersed in water.

5.3.2 Do not put hand or finger in the bath when Heater is on.

6.0 ABBREVIATION (S):

DTC – Digital Temperature Controller

QCD – Quality Control Department

SOP – Standard Operating Procedure

NA – Not Applicable

7.0 REFERENCE(S):

NA

8.0 ANNEXURE (S):

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9.0 REVISION CARD:

