



**GAWANDE COLLEGE OF
PHARMACY.**

Sakharkherda, Lavala Road, Tq.
Sindkhed Raja
Dist. Buldhana



Department: **Analytical Chemistry**

Name of the instrument: **CONDUCTIVITY METER**

S.O.P. No.: GCP/AC/004

Stock Register No.: AC-0017/02

Effective date: 17/02/2015

Review date: 21/02/2015




Procedure:

1. Ensure that instrument is clean and free from dust.
2. Ensure that plug is connected to the mains.
3. Press power 'ON/OFF' switch at the panel to 'ON' position.
4. Keep the beaker containing STANDARD solution on the base plate of the electrode stand. Clip the cell holding clamp at the appropriate height on rod of the electrode stand such that the electrodes of the cell are immersed in the sample. Connect the conductivity cell to the CELL terminals of the instrument.
5. Select appropriate conductance range and cell constant.
6. Push the MEAS/CAL switch to CAL position.
7. Set TEMP. °C control to 25°C and adjust CAL control to get 1000 display on the readout.
8. Measure the temperature of the STANDARD solution and set the TEMP. °C control to the value of measured temperature.
9. Push the CAL/MEAS switch to MEAS position.
10. Adjust CELL ADJ. control to set the value of the CONDUCTIVITY of STANDARD solution on the READOUT.
11. Raise the cell, remove the container of the STANDARD solution and thoroughly clean the conductivity cell with distilled water.

12. Repeat operations of step 4 with the Solution to be titrated as SAMPLE.
13. Measure the temperature of the sample with a thermometer and set TEMP.°C control to the value of measured temperature. Push the CAL/MEAS switch to MEAS position.
14. The point of lowest conductance indicates the end point of titration.
15. Switch OFF the instrument when not in use for long period.



CONDUCTIVITY METER

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