

 <p>BLDEA'S Shri Sanganabasava Mahaswamiji College of Pharmacy & Research Centre Vijayapur 586103</p>	DEPT. : PHARMACEUTICAL QUALITY ASSURANCE INSTRUMENT NAME – DIGITAL PH METER MAKER – SYSTRONIC MODEL – 3493 PROCUREMENT DATE - 13-08-2014	SOP NO.: BCP/CIL/SOP/0 01
	SUBJECT: SOP FOR DIGITAL pH METER	PAGE NO.: 1-2 EFFECTIVE DATE: 01/01/2021 REVIEW PERIOD: 31/12/2021

- ✓ **PURPOSE:** To outline the procedure for operation of typical pH meter in the TRACES Centre and the undergraduate laboratories. This procedure describes how to accurately measure the pH of a solution.
- ✓ **OBJECTIVES:** This SOP is applicable to the operation and calibration of flourometer at the quality control department.
- ✓ **SCOPE:** Applicable to digital pH meters located in TRACES Centre and UG Laboratory. These include (but not limited to) Sartorius, Oakton and Mettler-Toldeo brand devices. This SOP is applicable for the procedure to be followed in HPLC analysis and documentation and to ensure that good laboratory practices are followed in the HPLC analysis

PRECAUTION:

- Calibration should be performed prior to every use.
 - Treat the electrode with extreme care! It is very fragile and expensive!
 - Rinse and dry electrode between each different solution immersion.
 - The most common reason for calibration errors is the use of expired buffers.
- ✓ **STANDARD OPERATING PROCEDURE:**
- Place electrode in acid pH standars(4.0)-pink solution.
 - To turn on pH meter,press standby
 - Press 2pt calibration button.
 - Thr elctrode will then measure conductance. Once it stabilizes press enter to accept reading.
 - The elctrode will then measure temperature. Again once stabilizes press enter.
 - Finally, press standby to complete measure of 4.0 pH point in calibration.
 - Rinse electrode with water
 - Place electrode in neutral pH standard(7.0)- yellow solution.

- Repeat steps 2-6 above.
- After temperature reading the meter will provide a measure of the electrode efficiency.
- Measure above 90%efficiency are accpactable.
- Press standby to complete calibration.

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