
	PREMIER MAGNESIA - GILES CHEMICAL			
	COMPANY PROCEDURE			
	USP pH Meter Calibration and Maintenance	Page : 1 of 2	Revision : 00 Effective Date : 02/24/2012	
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Calibration and Maintenance of the VWR Model SB20 pH meter (daily and weekly):

Daily Calibration:

- 1) Place the pH electrode into the pH 4.0 calibration buffer.
- 2) Press lower left key on the pH meter to turn the unit on.
- 3) Press the cal key and “calibrate” will be displayed in the lower field. “P1” will be displayed indicating it is ready for the first buffer point.
- 4) When “ready” flashes, record that value on pH Meter Calibration Log. And press “ok” to accept the pH value. “P2” will then be displayed.
- 5) Rinse the electrode with distilled water and place the electrode into the pH 7.0 buffer.
- 6) When “ready” flashes again, record that value on pH Meter Calibration Log and press the “ok” key. “P3” will then be displayed.
- 7) Rinse electrode with distilled water and place the electrode into the pH 10.0 buffer.
- 8) When “ready” flashes again, record that value on pH Meter Calibration Log and press the “ok” key.
- 9) The display will freeze for 2 seconds, and then the slope will momentarily be displayed. Record the slope on pH Meter Calibration Log. The slope should be between 92-102%.
- 10) Meter will automatically advance to the measure mode. Rinse electrode and place into sample or storage solution.

Weekly Maintenance:

To be done before daily calibration

- 1) Inspect the electrode for scratches, cracks, salt/crystal build up, or membrane/junction deposits.
- 2) Rinse off salt build up with distilled water and remove any other deposits as indicated in manual.
- 3) Replace storage solution.
- 4) Record maintenance completion on pH Meter Calibration Log along with calibration data.

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