**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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| Revision  Number | Revision  Date | Effective  Date | Revision  Author | Quality  Approval | Production Approval | Revision Description |
| 00 | 02/24/2012 | 02/24/2012 | Stephen Ballew | Deborah  Durbin | Jason  Bumgarner | New Document |
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