Electrical Conductivity Calibration Protocol

Lab Guide

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Calibrate your electrical conductivity tester.

What You Need	
☐ Electrical conductivity tester	☐ Soft tissue
☐ Standard solution	☐ Two 100-mL beakers or two plastic cups
☐ Thermometer	☐ Latex gloves
☐ Distilled water in wash bottle	☐ Small screwdriver

In the Lab

- 1. Bring the standard solution to room temperature (about 25° C).
- 2. Pour standard solution into each of the two clean 100-mL beakers or cups to a depth of about 2 cm.
- 3. Remove the cap from the electrical conductivity tester and press the On/Off button to turn it on.
- 4. Rinse the electrode at the bottom of the tester with distilled water in the wash bottle.
- 5. Gently blot dry with a tissue. **Note:** Do not rub or stroke the electrode while drying.
- 6. Put the probe of the meter into the first beaker of standard. Stir gently for 2 seconds to rinse off any distilled water.
- 7. Take the meter out of the first beaker. Do NOT rinse with distilled water.
- 8. Put it into the second beaker.
- 9. Stir gently, and then wait for the numbers to stop changing.
- 10. If the display does not read the value of your standard solution, you must adjust the instrument to read this number. (For most meters, you can use a small screwdriver to adjust the calibration screw on the meter until the display reads the standard value.
- 11. Rinse the electrode with distilled water and blot it dry. Turn off the meter and put the cap on to protect the electrode.
- 12. Pour the standard from the beakers into a waste container. Rinse and dry the beakers.