

Quality Control Procedure for Salinity Optional Titration Protocol

Lab Guide

Task

Check your chemical titration skills.

What You Need

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| <input type="checkbox"/> Salinity Titration Test Kit (See <i>Toolkit</i>) | <input type="checkbox"/> Distilled water |
| <input type="checkbox"/> <i>Quality Control Procedure Data Sheet</i> | <input type="checkbox"/> Masking tape |
| <input type="checkbox"/> Latex gloves | <input type="checkbox"/> 500-mL clear plastic graduated cylinder |
| <input type="checkbox"/> 1-liter plastic bottle | <input type="checkbox"/> Balance |
| <input type="checkbox"/> Table salt | |

In the Lab

Mix the 38.6 ppt standard

1. Measure 17.5 g of table salt (NaCl) with the balance.
2. Pour the salt into the 500-mL cylinder.
3. Fill the cylinder to the 500-mL line with distilled water.
4. Gently mix the salt and water until all of the salt is dissolved. This is your 38.6 ppt standard.
Note: This standard may be kept up to one year in a tightly closed bottle.

Check your Test Kit and Technique

1. Follow the directions in your Salinity Titration Test Kit, using the 38.6 ppt standard instead of sample water.
2. Record the value of the standards after testing on the *Quality Control Procedure Data Sheet*.
3. If salinity standards are off by more than 0.4 ppt, prepare new standards and repeat the measurement.