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Product Technical Fact Sheet

Product Code: SAL

Product Description: Salinity Test Strips

Application:

Salinity test strips measure the chloride ion (Cl^{-1}) present in solution from 0-1,000 ppm Cl. This strip can be used to educate students on the difference between “fresh” and “salt” water. It can also be useful in explaining the concepts of freezing point depression and boiling point elevation. In applications where the salt content is high the sample will require dilution with deionized water before running the test. In these cases, the test result will need to be corrected by using a dilution factor to arrive at the final result.

Test Range: 0-1000 ppm Cl^{-1}

Test Increments: Color chart calibrated at 0, 500, and 1000 ppm

Accuracy: +/- ½ color chart unit

Detection Limit: 250 ppm

Storage Recommendations:

Store in original packaging in a cool (20-30C), dry, place out of direct sunlight.

Shelf-Life: Two years from date of manufacture when stored properly in original packaging.

Interferences: None known

Instructions for Use:

1. Remove one test strip from the vial, being careful not to touch the test pad with your fingers.
2. Dip the test strip into the solution to be tested for 1 second.
3. After 10 seconds, compare test pad with color scale.

Other Information:

The salinity test strips can also be used to measure sodium chloride. This test strip measures the level of chloride present and can be used as an indirect indicator of sodium when the sodium is present due to sodium chloride salt.

If the sodium is due to NaCl and not from other sources, a ppm level of 500 ppm Cl would be equivalent to a ppm level of about 320ppm sodium based on the differences in molecular weight. A 1000ppm chloride result would therefore be about 640ppm sodium.

Disclaimer:

The Salinity test strips are not intended for use to diagnose, treat, or monitor any medical condition.