



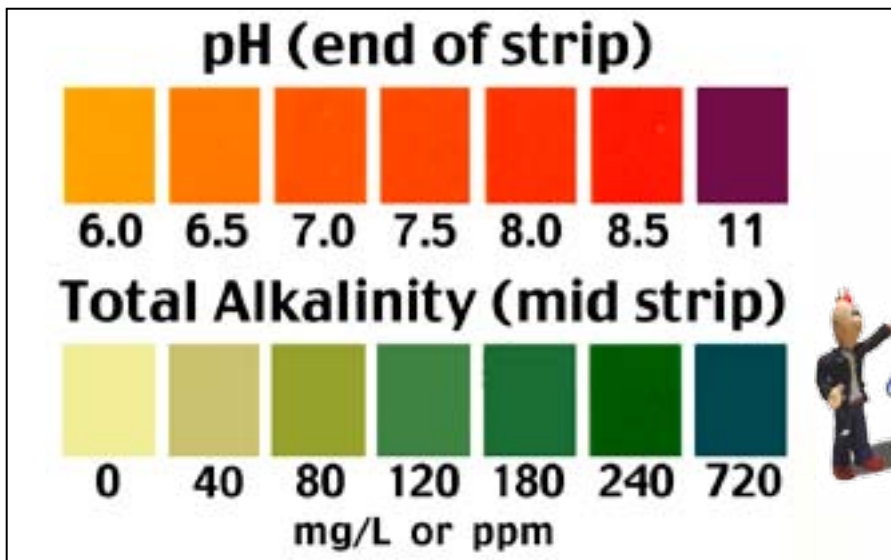
572 Washing Fruits and Vegetables Sciencefaircenter.com Study Kit

Each water sample is tested for this Set of parameters:
Alkalinity, pH, Free Chlorine, Total Chlorine,
Total Dissolved Solids (TDS), plus
Bacterial Growth Indicator
(6 tests per Set)

Log onto
www.sciencefaircenter.com/documentation.tpl
for additional information on this study kit.

Find more water information at www.sciencefairwater.com (a web work in progress).

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#115 pH and TOTAL ALKALINITY of Water

Colorimetric test strips. (2 tests per strip)

pH and Total Alkalinity are two of the most fundamental parameters in drinking water testing as well as a great variety of other applications of water usage. Alkalinity indicates the buffering capacity of natural waters. A water is buffered if the pH does not change greatly by addition of acids or bases.

The most effective buffering action is within the pH range of water from 6.0 to about 8.5. The productivities of water can be correlated with pH, alkalinity and the buffering system.

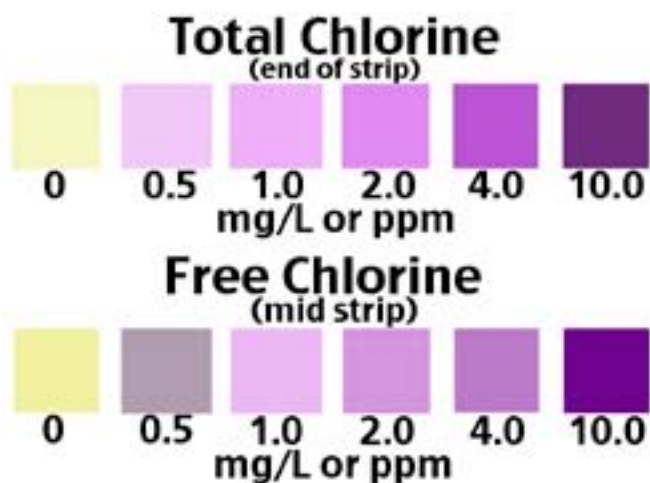
The color charts for these tests read pH levels and Total Alkalinity in mg/L or ppm.

The Color Comparator Chart test reports levels of:
 pH levels of 6.0, 6.5, 7.0, 7.5, 8.0, 8.5, 11
 Total Alkalinity 0, 40, 80, 120, 180, 240, 720 mg/L or ppm.
 Both tests are on the same test strip.

Results are obtained from this test in 25 seconds.

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#130 Total and Free Chlorine in Water

Colorimetric test strips. (2 tests per strip)

Total Chlorine and Free Chlorine test strips are used for testing drinking water from a city water treatment system. This dual test is a convenient way of monitoring Total and Free Chlorine.

This test has been calibrated around EPA drinking water standards. Free Chlorine levels of 4.0 mg/L or greater exceeds Maximum Contaminant Level (MCL) as recommended by EPA.

The Color Comparator Chart for this test reports mg/L or ppm of:
 Total Chlorine 0.0, 0.5, 1.0, 2.0, 4.0, 10.0
 Free Chlorine 0.0, 0.5, 1.0, 2.0, 4.0, 10.0

Results are obtained from this test in 30 seconds.



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Total Dissolved Solids (TDS)



#145 Total Dissolved Solids in Water

Colorimetric test strips. (1 test per strip)

Testing for Total Dissolved Solids (TDS) in tap water is very common and is very quick and easy with these test strips. The EPA Secondary Drinking Water Standard for TDS is 500mg/L or ppm.

The color chart for this test allows you to read TDS in milligram/L or ppm.

The Color Comparator Chart for this test reports Total Dissolved Solids levels in water at:

0, 50, 100, 250, 500, 750 mg/L or ppm.

(Note: concentration units are milligrams per Liter or parts per million).

Results are obtained from this test in about 30 seconds.

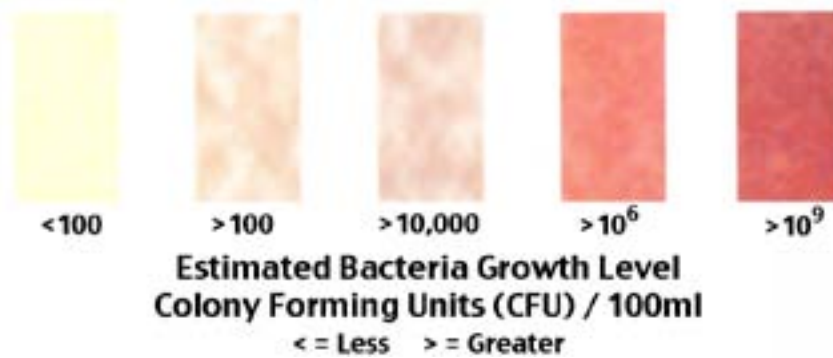


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Bacteria Growth Check

fastidious aerobic bacteria in water



180 Bacteria Growth Check

Colorimetric test strips. (1 test per strip)

Bacteria Growth Check is a test strip that has been specially formulated with Brain Heart Infusion media that allows maximum cultivation of fastidious aerobic bacteria found in some waters. This test could be used in a variety of applications, however it is not specific for any particular type of bacteria.

You can dip these strips in water or swab surfaces with them. The Bacteria test procedure then requires you to return the test strip into a clear plastic bag for incubation. After 48 hours of room temperature incubation, any fastidious bacteria on the test pad will multiply and turn the test pad pink to red. The darker and more consistent the test pad, the more bacteria that are present.

Bacteria Growth Check tests only a small water sample and requires a significant quantity of bacteria to show a change on the test pad.

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