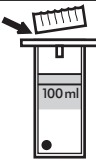
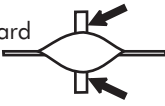
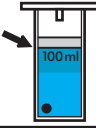
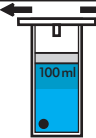
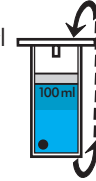



Total Coliform Bacteria Test





STEP 1: Dechlorination of Water Samples

Water samples containing chlorine (like tap water) tend to suppress the growth of coliform bacteria when used with this test. A sterile Water Sampling Bag containing a dechlorinating agent is provided to collect the sample and neutralize any chlorine which may be present. This treatment is only necessary for water samples that may contain chlorine.

- 1** Tear off top of Water Sampling Bag (2-2197) at the scored line.
- 2** Pull the tabs outward to open the bag.
- 3** Fill the bag to the 100 mL fill line with the sample water.
- 4** Pull wire ends to close the bag.
- 5** Hold tape wire and whirl the bag for 3 complete revolutions. Shake the bag to dissolve the tablet.
- 6** Unwhirl bag and pull tabs open. Fold one tape wire inward to form a pouring spout.

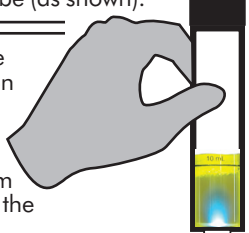


STEP 2: Test Procedure

Run the test as a quick screening test to determine if coliform bacteria are present in numbers greater than 20 colonies per 100 mL of water.

- 1** Fill the glass tube that contains a tablet (4890) to the 10 mL line with water sample from Step 1. Replace the cap.
- 2** Stand the tube upright with the tablet flat on the bottom of the tube.
- 3** Incubate the tube upright at room temperature for 48 hours. Store out of direct sunlight.
- 4** Compare the contents of the tube to the Coliform Bacteria Colour Chart. If positive, test for *E. coli*.

STEP 3: *E. coli* Fluorescence Test

If Total Coliform test is positive:

- 1** In a darkened room, hold the UV Light** (31 633) against the bottom of the tube (as shown).
- 2** Press the button on the UV Light** to shine the beam through the sample.
- 3** If *E. coli* is present, the sample will have a blue glow.

**WARNING: Do not stare directly into the UV light source.

Note: Samples with positive screening results may require additional laboratory testing to define specific health risks.

Coliform Test Disposal:

Remove cap. Add 1 mL (1/3 tsp) of household chlorine bleach. Immediately recap. Stand tube upright for 4 hours. Dispose of closed tube in trash. **Do not open tube.**

WATER
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ADVANCED

Code 3010-12

Not for use by children without adult supervision.

Emergency information for all LaMotte reagents is available from Chem-Tel:
US 1-800-255-3924
International, call collect, 813-248-0585

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Six Tests: Total Hardness, Free Chlorine, Total Chlorine, Total Alkalinity, pH, Nitrate

1 Fill plastic tube to the etched line with sample water.

2 Dip Six Test strip (2942) for 2 seconds. Remove with pads face up. Shake once to remove excess water.

3 Immediately compare to colour chart. Read: Total Hardness > Free Chlorine > Total Chlorine > Total Alkalinity > pH.

4 Wait 30 seconds and compare to colour chart. Read: Nitrate. Discard strip and sample.

Chloramines

Total Chlorine minus Free Chlorine = Chloramines

Copper Test

1 Fill plastic tube to the etched line with sample water.

2 Immerse Copper strip (2991). Swirl 10 times. Remove with pads face up. Do not shake off excess water.

3 Wait 15 seconds and compare to colour chart. Read Copper. Discard strip after 30 seconds. Discard sample.

Iron Test

1 Fill plastic tube to the etched line with sample water.

2 Immerse Iron strip (2935) for 2 seconds. Remove with pads face up. Shake once to remove excess water.

3 Wait 60 seconds and compare to colour chart. Read Iron. Discard strip after 90 seconds. Discard sample.

Lead/Pesticide Test

1 Open foil pouch marked "Pe/Pb." Using dropper, place exactly TWO droppers full of water sample into small test vial included in the pouch. To pick up sample, tightly squeeze the bulb at the end of the dropper and place the open end into water sample. Release the bulb to pick up sample, then squeeze again to expel sample into vial.

2 Swirl vial gently for several seconds. Place on a flat surface.

3 Place both test strips (8002) into the test vial with arrows pointing DOWN.

4 Wait 10 minutes. Do not disturb strips or vial during this time. Blue lines will appear on the strips.

5 Take the strips out of the vial and lay them on a flat surface with the arrows pointing to the LEFT. Read results.

NEGATIVE RESULT (less than 15 ppb): LEFT line, next to number 1, is darker than the RIGHT line, next to number 2 OR if you only see one line the result is negative.



POSITIVE RESULT (greater than 15 ppb): RIGHT line, next to number 2, is darker than the LEFT line, next to number 1, OR if both LEFT and RIGHT lines are equally dark the result is positive.



Note: If no lines appear, or both lines are very light, the test did not run properly and the result is not valid.

For additional information on water testing and water quality issues, go to these helpful websites:

World Health Organization
www.who.int/topics/drinking_water/en/

European Commission Directive
ec.europa.eu/environment/water/water-drink/legislation_en.html

Australian Drinking Water Guidelines
www.nhmrc.gov.au/guidelines-publications/eh52