

WATER ✓ CHECK BACTERIA

63048-12 7.16

Code 3048-12

Not for use by children without adult supervision.

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

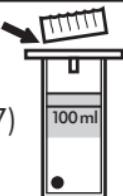
Australian Drinking Water Guidelines

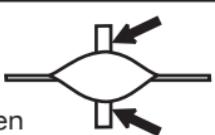
www.nhmrc.gov.au/guidelines-publications/eh52

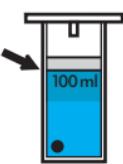
Total Coliform Bacteria Test

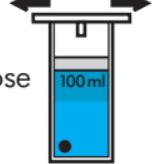
STEP 1: Dechlorination of Water Samples

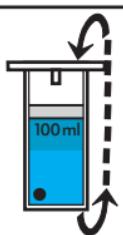
Water samples containing chlorine (like tap water) tend to suppress the growth of coliform bacteria when used with this test. A sterile Water Sampling Bag containing a dechlorinating agent is provided to collect the sample and neutralize any chlorine which may be present. This treatment is only necessary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

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1 Tear off top of Water Sampling Bag (2-2197) at the scored line.
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2 Pull the tabs outward to open the bag.
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3 Fill the bag to the 100 mL fill line with the sample water.
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4 Pull wire ends to close the bag.
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5 Hold tape wire and whirl the bag for 3 complete revolutions. Shake the bag to dissolve the tablet.
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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 or less than 20 colonies per 100 mL of water.

1

Fill the glass tube that contains a tablet (4890) to the 10 mL line with sample water from Step 1.

Replace the cap.

2

Stand the tube upright with the tablet flat on the bottom of the tube.

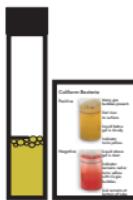
3

Incubate the tube upright at room temperature for 48 hours. Store out of direct sunlight.

48:00

4

Compare the contents of the tube to the Coliform Bacteria Colour Chart. If positive, test for *E. coli*.

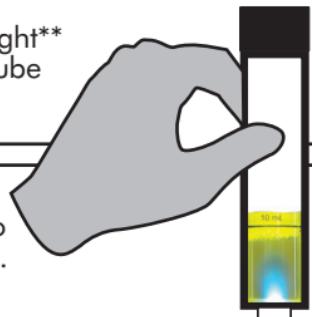


STEP 3: *E. coli* Fluorescence Test

If Total Coliform test is positive:

1

In a darkened room, hold the UV Light** (31633) against the bottom of the tube (as shown).

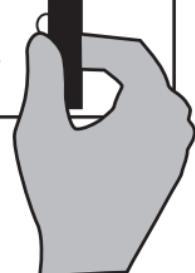


2

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.**

