

COLIFORM BACTERIA

Fecal coliform bacteria are naturally present in the human digestive tract but are rare or absent in unpolluted waters. Coliform bacteria should not be found in well water or other sources of drinking water. Their presence in water serves as a reliable indication of sewage or fecal contamination. Although coliform bacteria themselves are not pathogenic, they occur with intestinal tract pathogens that are dangerous to human health. This presence/absence total coliform test detects all coliform bacteria strains and may indicate fecal contamination.

Water samples containing chlorine (like tap water) tend to suppress the growth of coliform bacteria when used in this kit. Sterile Water Sampling Bags containing a dechlorinating agent (2-2197) are 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.

Code 5850-FC | 04.22

COLIFORM BACTERIA

DETECTED



Gel rises to surface.

Indicator must turn yellow AND many gas bubbles must be present.

Liquid below gel is cloudy.

NOT DETECTED



Liquid above gel is clear.

Indicator remains red or turns yellow with very few gas bubbles.

Gel remains at bottom of tube.

Code 5850-CC | 7.23

COLIFORM BACTERIA | Reaction

The Coliform Tablet (4890) contains nutrients to support the growth of coliform bacteria, a gelling substance, and a pH indicator. If coliform organisms are present in the sample, gas will be generated as a result of the bacteria metabolizing the nutrients in the tablet. The gas will be trapped in the gelling substance and cause the gel to rise in the tube. The pH indicator may change color from red to yellow as further evidence of coliform bacteria activity.

DECHLORINATION OF WATER SAMPLES
Tear top off of the Water Sampling Bag. Fill to the 100 mL line. Close bag and mix. Follow test procedure with treated sample.



*Reagent is a potential health hazard.
READ SDS: lamotte.com
Emergency information:
Chem-Tel USA 1-800-255-3924
Int'l. call collect, 813-248-0585



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802 Washington Ave | Chestertown, MD | 21620
800-344-3100 | www.lamotte.com

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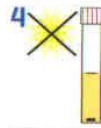
1 Fill the tube to the 10 mL line.



2 Replace cap.



3 Stand the tube upright, with tablet (4890) flat on the bottom of the tube.



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



5 Compare the contents of the tube to the Coliform Bacteria Color Chart (5850-CC).

WARNING! This set contains chemicals that may be harmful if misused. Read cautions on individual containers carefully. Not to be used by children except under adult supervision.

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