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COLIFORM INDICATOR TEST KIT

4-3616

RESULTS ANALYSIS

A positive result in any one of the five tubes should be regarded as a potential coliform bacterial contamination. If a positive result is found in two or more tubes, there is a potential for a serious bacterial contamination problem. Further steps should be taken to validate these results by a certified bacteriological laboratory.

DISPOSAL

After the results are recorded, dispose of the inoculated tubes as follows:

- Remove all of the tubes from the display package.
- One tube at a time, remove the cap and add approximately 1 mL (or 1/3 teaspoon) of household bleach (chlorine bleach) to the tube and immediately recap. Follow the above procedure for all of the remaining tubes.
- Return the tubes to the foam tray and again stand upright. Let tubes stand for approximately 4 hours.
- Dispose of the tubes and package as required by local jurisdiction. Do not open the tubes or attempt to clean them for reuse.

The Coliform Indicator Test Kit utilizes an easy-to-use, disposable 5-tube method to indicate the presence of Total Coliform Bacteria in a drinking water supply. The water sample is placed in test vials containing special coliform indicating tablets and stored at room temperature for a predetermined time period. After the required storage period, the vials are examined to determine the presence of coliform bacteria.

Carefully read the instructions *completely* before attempting to collect a sample or run the test.

CONTENTS

Each kit contains 5 glass tubes, marked at 10 mL and containing one Coliform Test Tablet (4880). A sterile Water Sampling Bag containing a dechlorinating tablet is included for chlorine removal.

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

INTRODUCTION:

The Coliform Test Tablets (Code 4880) contain 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. This 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. Suggestion: As the test requires a 44-48 hour incubation time, sample at a time period convenient to the user to read the end result.

STORAGE

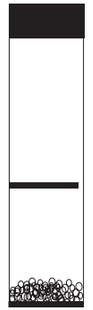
The unused kit should be stored at room temperature and out of direct sunlight. Keep away from children. This product is to be used for water analysis tests only.

CHLORINE RESIDUAL PRECAUTIONS

Water samples with chlorine residuals tend to suppress the growth of coliform bacteria when used with this kit. A sterile Water Sampling Bag containing a dechlorinating agent is provided to collect the sample and neutralize any chlorine which may be present in the water.
See page 5.

NEGATIVE TEST

- Indicator remains red or turns yellow with few gas bubbles.†
- Gelling substance remains on bottom of tube.
- Substrate above gelling substance should be clear.



†NOTE: Some water samples with a pH below 6.8 will cause the indicator to turn yellow prematurely. This is not indicative of a positive result.

TEST RESULTS

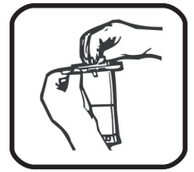
POSITIVE TEST

- Indicator turns yellow.†
- Many gas bubbles evident within gelling substance.
- Gel rises to surface of sample.
- Substrate below gel is cloudy.

†**NOTE:** *Some water samples with a pH below 6.8 will cause the indicator to turn yellow prematurely. This is not indicative of a positive result.* **Both** the yellow color **and** gas bubbles must be evident in order to establish a positive test result. Gel will float to surface of the sample indicating gas formation. Substrate below the gel should be cloudy.

SAMPLE COLLECTION & TEST PROCEDURE

1. Determine the sample source, i.e. water spigot, faucet, system sample valve, etc.
2. Soak a cotton ball or gauze with household alcohol and wipe the entire water outlet area of the spigot, faucet or test valve. Pay particular attention to faucet aerator screens and mixers.
3. Allow tap (cold water) to run for 2 to 3 minutes or until the line is flushed.
4. Reduce the tap water flow to a rate that will fill the Water Sampling Bag slowly without splashing. Tear off the top of the bag at the scored line and pull the tabs outward to open the bag. Do not touch the bag opening or inner surface.



Caution: Do not allow the tablet to fall out of the bag.

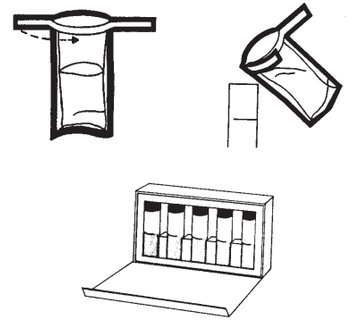
5. Fill the bag to the 4 oz fill line. Pull the wire ends to close and whirl the bag for three complete revolutions. Shake the bag to dissolve the tablet.

6. Remove all 5 tubes from the display package and remove the caps.

NOTE: *Do not remove the tablets from tubes.*

CAUTION: To avoid contamination, do not touch the inner surface of the caps and tubes, or handle the tablet.

7. Unwhirl the bag and pull the tabs outward to open the bag. Fold one tape wire inward to form a spout. Carefully fill **all 5 tubes** to the 10 mL line with the water sample. Replace the caps tightly. **Do not mix or shake tubes.**
8. Stand the carton upright and place all 5 tubes into the display package. All tubes should now be standing vertically with the tablet at the bottom of the tube. The tablet should lie flat on the bottom of each tube.
9. Store the tubes at room temperature, out of direct sunlight, for 44-48 hours. The air temperature should be fairly constant and between 70°- 85°F.



NOTE: Do not disturb, handle, or shake the tubes during the designated incubation time period. If these storage conditions are not followed precisely, the results of the test may vary and may not be valid.