HACH® modified colitag™ 16-Hour Presence/Absence Test

Hach's Modified Colitag Presence/Absence (P/A) Water Test detects as few as 1 colony-forming unit (CFU) of *E. coli* and other coliform bacteria in 100-mL of water. This package contains 100 snap top blisters. Modified Colitag has been approved by the EPA (as specified in Standard Methods 9221) for use under the Total Coliform Rule and Ground Water Rule for detection of coliforms and *E. coli*.

Instructions: Test Procedure for Total Coliforms and *E. coli* Bacteria.

There are two options for using Modified Colitag, either a 16-hour test or a 22-hour test:

For sample reading between 16 to 48 hours:

1. Add the Hach Modified Colitag media to a 100 mL sample in a sterile, transparent, non-fluorescing vessel.
2. Secure the vessel top and slowly agitate to begin dissolution. It is normal for some media to not immediately dissolve; complete dissolution will occur after a few minutes of incubation.
3. If the sample is not already at 33-38 °C, then place the vessel in a 44.5 °C water bath for 7 to 10 minutes.
4. Incubate the sample at 35 °C ± 0.5 °C for the remainder of the desired incubation time, 16 to 48 hours.
5. Read the results according to the sample interpretation method listed below.

For sample reading between 22 to 48 hours:

1. Add the Hach Modified Colitag media to a 100 mL sample in a sterile, transparent, non-fluorescing vessel (PN 8888006).
2. Secure the vessel top and slowly agitate to begin dissolution. It is normal for some media to not immediately dissolve; complete dissolution will occur after a few minutes of incubation.
3. Incubate the sample at 35 °C ± 0.5 °C for 22 to 48 hours.
4. Read the results according to the sample interpretation method listed below.

Sample Interpretation:

1. Visually check each sample against the Hach comparator (PN 8888001).
   a. If the sample color is yellow, and of equal or greater color than the yellow comparator, the sample is positive for coliform bacteria.
   b. If no yellow color is observed in the sample, the sample is negative for coliform bacteria.
2. Examine the solution for fluorescence using a long wavelength (365 nm) UV lamp (PN 2184300).
   a. If bright blue fluorescence is observed, *E. coli* bacteria are present.
   b. If no fluorescence is observed, the sample is negative for E. coli.

Product Storage:

Store at room temperature (4.0 °C to 30.0 °C), away from light. The shelf life and warranty period of Hach Colitag is 22 months from the manufacture date printed on the snap top blisters. Product expiration date is printed on the box and individual blisters.

The Material Safety Data Sheet is available upon request or by visiting us on our website at: **www.Hach.com**