



Quality Control Kit



Pictured: *E. coli*



Pictured: *E. coli* pellet

Introduction

The NEOGEN® Colitag™ Quality Control (QC) kit allows for a verification of the Colitag media and the expected results. The following organisms are included in the kit, and each one provides a unique result.

E. coli: Positive yellow color change with fluorescence; verified as *E. coli* coliform by Colitag.

E. aerogenes: Positive yellow color change and no fluorescence; verified as Total coliform by Colitag.

P. aeruginosa: No yellow color change and no fluorescence; verified as a negative control by Colitag.

Materials available

S2-COLITAG-QCKIT — Colitag QC kit

NEOGEN item 9857 — Colitag Comparator, 100 mL

NEOGEN item 9850 — Colitag P/A Water Test Kit (pack of 20)

NEOGEN item 9851 — Colitag P/A Water Test Kit (pack of 100)

NEOGEN item 9849 — Colitag P/A Water Test Kit (pack of 200)

Storage conditions

Freezer (-20 to -10°C)

Instructions for use

1. Remove the sample vial from the freezer. Allow the unopened sample vial to equilibrate to room temperature (15–30°C). This will take approximately 10–15 minutes.
2. Once at room temperature, open the vial by removing the cap and stopper.
3. Add 100 mL of sterile deionized water to the sample vessel.
4. Add the microorganism pellet to the sample vessel. Allow the pellet to dissolve completely. After the pellet has dissolved, gently mix to homogenize the sample.
5. Add Colitag media to a 100 mL water sample containing the dissolved microorganism pellet suspension.



6. Incubate the sample for 16–48 hours at $35 \pm 0.5^{\circ}\text{C}$. For reading between 16 and 22 hours, place the water sample vessel into a 44.5°C water bath for 7–10 minutes before incubation.
7. After incubation, visually check each sample for a yellow color change. If the sample is less yellow than the Colitag comparator (P/A), the sample is negative for total coliforms. If the sample is equal to or greater yellow than the Colitag comparator (P/A), the sample is positive for total coliforms. Check for fluorescence using a longwave (365 nm) UV lamp. If the yellow sample fluoresces, the sample is positive for *E. coli* bacteria. If the yellow sample does not fluoresce, the sample is negative for *E. coli* bacteria.
8. Dispose of all material in accordance with local biohazardous waste disposal requirements.

Disclaimers

Information provided is based on validation procedures that NEOGEN performed in NEOGEN laboratories. Deviation from procedures is possible but should be discussed with NEOGEN Technical Services.

