

Part No. 487197-1

EZ™ Coliform Cult - MUG

Contains 1 Test

Intended use: Presence/absence test for the simultaneous detection of total coliforms and *E. coli* in water (USEPA Compliant). Use by expiration date. Store dry at 15-27°C (59-81°F). This media turns blue-green in the presence of coliform bacteria. *E. coli* growth is confirmed by blue fluorescence under UV light (≈365nm) or using Kovac's Indole reagent.

PROCEDURE:

1. Wash hands thoroughly with soap and water.
2. Carefully remove the bottle cap; **do not touch the inside of the cap or bottle opening**. Fill with 100mls of the water sample to be tested (about ½ inch below the neck of the bottle). Do not overfill. Securely recap the bottle.
3. Shake the bottle vigorously until all the media is dissolved. The solution should be clear yellow in color (a bit less clear with turbid samples).
4. Incubate the sample for 24 hours at 35°C/95°F or for 48 hours at 25°C/77°F (+/- 3°C/5°F).

Coliform Confirmation:

5. After the 24 hour or 48 hour incubation time (based on temperature) observe the color of the sample:

- a. Clear yellow = negative for coliforms
- b. Blue-green = positive for coliform

***E. coli* Confirmation:**

6. Shine a UV light (approximately 365nm) from the bottom of the sample. (**Avoid looking directly at the light**).

- a. No fluorescence = negative for *E. coli*.
- b. Blue fluorescence = positive for *E. coli*.

If further confirmation of *E. coli* is desired add 1ml of Kovac's Indole reagent (sold separately) to the sample, recap the bottle, and wait 30 seconds. A red ring will form if *E. coli* is present.

Sample disposal:

Follow good laboratory practices. If results are positive, add bleach to the sample before pouring down the toilet. Wash hands thoroughly.