

E-Coli / Coliforms Test



TEST KITS TAILORED TO YOUR APPLICATION

Selective enrichment broth for the simultaneous presence / absence detection and identification of total coliforms and E. coli within the bacteriological water examination. The presence of total coliforms is indicated by a blue-green color of the broth and E. coli by a blue fluorescence under UV-light. 20 tests per pack. Store dry at +15 °C to +25 °C.

PERFORMING THE TEST

- Add 100 ml of water sample into a sterile, transparent vessel with screw cap. (min. capacity: >120 ml)
- Take one snap pack, shortly tap to ensure the granules are at the bottom. Bend the upper part of the snap pack until it breaks open. **Attention: do not touch the opening to avoid contamination risk!**
- Add the content to the water sample. Seal the vessel and shake to dissolve the granules completely. The prepared broth is clear and yellowish.
- Incubation: up to 24 h at 35°C to 37°C. If incubated at room temperature (20 to 25°C) the incubation time is prolonged to 48 hours
- Negative: No color change - The broth remains yellowish in color.
- Total coliforms: Any color change of the broth to blue-green, even in the upper section of the broth only, confirms the presence of coliforms (X-GAL reaction). No decoloration with shaking!
- E. coli: Check blue-green colored vessels for fluorescence by using a long wave UV-lamp (366 nm) in front of the vessel. Light blue fluorescence confirms the presence of E. coli (MUG reaction). Further confirmation or verification steps are not required.
- **Attention: Protect your eyes from direct UV light.**

Control strains	Inoculum	Growth	Change to blue-green	Fluorescence
Escherichia coli ATCC 11775 (WDCM 00090)	10-100	+	+	+
Citrobacter freundii ATCC 8090	10-100	+	+	-
Salmonella typhimurium ATCC 14028 (WDCM 00031)	10-100	+	-	-
Klebsiella pneumoniae ATCC 31488	10-100	+	+	-
Pseudomonas aeruginosa ATCC 10145 (WDCM 00024)	>1000	No limit	-	-