

CM 22,749 SELECTIVE E.COLI TEST KIT

INTENDED USE

For the rapid detection and confirmation of *E.coli* based on enzyme-substrate reaction from water samples.

PRODUCT SUMMARY AND EXPLANATION

Selective E.Coli Test Kit is used for detection and differentiation of *Escherichia coli*. It is based on Tryptone Bile Agar used for detection of *Escherichia coli* in foods where recovery of *Escherichia coli* is faster, more reliable and accurate.

KIT CONTAINS

Selective E.coli Test powder

PRINCIPLE

The medium contains chromogenic mixture which helps to detect glucuronidase activity of *Escherichia coli*. This specific enzyme differentiates *Escherichia coli* from other coliforms. *Escherichia coli* cells split the chromogenic mixture with the help of glucuronidase to give blue colouration to the colonies. Coliforms other than *Escherichia coli* give red colour due to presence of indicator. Thus, the resulting colour distinction allows simple interpretation of test without further confirmation. Casein enzymic hydrolysate provide the essential growth nutrients to the organisms. Bile salts inhibit gram- positive organisms.

INSTRUCTION FOR USE

1. Collect 100 ml water to be tested in sterile disposable bottle.
2. Add entire quantity of medium by swirling to dissolve the powder completely.
3. After dissolution, incubate the bottle for 18-24 hours at 35 – 37°C.
4. Observe the colour change of the medium from light yellow to blue indicating the presence of *Escherichia coli*. Coliforms other than *Escherichia coli* give red colour due to presence of indicator.

QUALITY CONTROL SPECIFICATIONS

| | | |
|-----------------------------|---|--|
| Appearance of powder | : | Light yellow to pink coloured, homogeneous, free flowing powder. |
| Appearance of Medium | : | Light yellow coloured, clear solution. |
| Sterility Test | : | Passes release criteria |

INTERPRETATION

Cultural characteristics observed after Incubation.

| Microorganism | ATCC | (ppcf/ml) | Growth | Colour of the medium | Incubation Temperature | Incubation Period |
|-------------------------------|-------|-----------|-----------|----------------------|------------------------|-------------------|
| # <i>Klebsiella aerogenes</i> | 13048 | 50-100 | Luxuriant | Red | 35-37°C | 18-24 Hours |
| <i>Escherichia coli</i> | 25922 | 50-100 | Luxuriant | Blue | 35-37°C | 18-24 Hours |

#Formerly known as *Enterobacter aerogenes*

STORAGE

Store the medium in a dark and dry place at 10-25°C and protect from direct sunlight. The powder may be used up to the expiration date and incubated for the recommended incubation times.

Product Deterioration: Do not use if they show evidence of microbial contamination, discoloration, or any other signs of deterioration.



DISPOSAL

After use, prepared media, specimen/sample containers and other contaminated materials must be sterilized before disposal.



NOTE: Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.

***For Lab Use Only**

