

TMK 06- H₂S TEST STRIP KIT (10 TEST) (1 Pack contains: 10 Bottles)

INTENDED USE

For detection of *Salmonella*, *Citrobacter* and *E. coli* from water.

PRODUCT SUMMARY AND EXPLANATION

There is a need for rapid methods to quickly determine the pathogenic bacteria in water other than coliforms. Monitoring microbiological quality of drinking water also needs examination of water samples for presence of bacteria like *Salmonella* and *Citrobacter freundii* using rapid kits. H₂S TEST STRIP KIT is one such kit used for rapid detection and confirmation of *Salmonella*, *Citrobacter* and *E.coli* from water. It is user-friendly and allows low-cost rapid test. It is also suitable for handling by untrained personnel for monitoring of rural drinking water sources.

KIT CONTAINS

- Glass vial containing H₂S test strip.

PRINCIPLE

The kit contains media-impregnated paper strip containing all the essential nutrients for the growth of *Salmonella* and *Citrobacter freundii*. Presumptively, presence of these bacteria is indicated by H₂S production, resulting in colour change of broth to black from initial light amber colour.

INSTRUCTION FOR USE

1. Carefully open the bottle cap and fill the water sample up to the mark indicated.
2. Add H₂S test strip into the collected water sample.
3. Quickly recap the test bottle and secure it tightly.
4. Shake gently for few minutes to allow the medium to diffuse in water evenly.
5. Incubate at 35-37°C for 24-48 hours and take observations.

QUALITY CONTROL SPECIFICATIONS

| | | |
|----------------------|---|---|
| Appearance of strip | : | Light yellow to yellowish brown colour |
| Appearance of Medium | : | Dark amber coloured clear solution on addition of water |
| Sterility Test | : | Passes release criteria |

INTERPRETATION

Cultural characteristics observed after Incubation.

| Microorganism | ATCC | Inoculum (CFU/ml) | Growth | H ₂ S production/ Colour of the medium | Incubation Temperature | Incubation Period |
|-------------------------------|-------|-------------------|-----------|---|------------------------|-------------------|
| <i>Salmonella typhimurium</i> | 14028 | 50-100 | Luxuriant | Positive reaction/ Black | 35-37°C | 24-48 Hours |
| <i>Citrobacter freundii</i> | 8090 | 50-100 | Luxuriant | Positive reaction/ Black | 35-37°C | 24-48 Hours |
| <i>Escherichia coli</i> | 25922 | 50-100 | Luxuriant | Negative reaction/ Yellow | 35-37°C | 24-48 Hours |

STORAGE















Store in a dry and dark place at 10- 25°C and protect from direct sunlight. The strip 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 discarding as per standard protocol.

| | | | | | |
|--|--|--|--|--|---|
|  Quantity |  Lot / Batch Number |  Temperature Unit |  Manufacturer |  Best Before |  Certification of Good Manufacturing Practices |
|  Catalogue No. |  Authorized Representative <small>MedMer GmbH Birkstrasse 18, 49163 Muenster, Germany</small> |  European Conformity |  Consults Instructions for use : |  QR Code |  For In Vitro Diagnostic Use |

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

***For Lab Use Only**

Revision: 23rd March., 2022