

CM 22272 - H₂S TEST POWDER KIT

INTENDED USE

For the detection of *Salmonella* species and *Citrobacter* species from water samples.

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 POWDER 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 dehydrated powder.

PRINCIPLE

The kit contains 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 powder into the collected water sample.
3. Quickly recap the test bottle and secure it tightly.
4. Shake well to dissolve the medium completely.
5. Incubate at 35-37°C for 24-48 hours and take observations.

QUALITY CONTROL SPECIFICATIONS

Appearance of powder	:	Light yellow to yellowish brown colored, homogeneous powder
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</i> Typhimurium	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

STORAGE

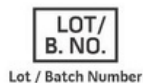
Dehydrated powder, hygroscopic in nature, store in the dark at 10-25°C and protect from direct sunlight. The powder may be used up to the expiration date and incubated for the recommended incubation times.



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

DISPOSAL

Afteruse, prepared media, specimen/sample containers and other contaminated materials must be sterilized before discarding as per standard protocol.



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

***For LabUse Only**

