InTray™ KF Strep (*Streptococcus*) with 1% TTC

For total colony count of fecal streptococci in water samples using direct plating or membrane filtration procedures

VALUE

High Throughput – Once the device is inoculated no other culture preparation is required saving time

Cost Savings – Reduces laboratory materials and medical waste

BENEFITS

Convenient - Combines collection, culture, and observation into one device

Easy to use - Minimal lab procedures and equipment needed

Easy to store – 12 month shelf life under refrigeration (2-8°C)

Easy observation - No fogging or condensation on the InTray™ viewing window

Safe - Fully enclosed InTray™ system prevents contamination and reduces exposure to collected samples

PRODUCT SPECIFICS

Storage - Refrigeration (2-8 °C)

Shelf Life - 12 months

Incubation – 46-48 hours

Quantity Sold

20 Pack (20-1201)
5 Pack (20-1207)

PRODUCT BIO

BioMed Diagnostics' InTray™ KF Strep is a microbiology sample collection, transport, culture and observation device with selective indicator medium for use in total colony count of fecal streptococci in water samples using membrane filtration procedures. **BioMed's patented InTray™ system saves time and money, while reducing exposure to collected samples by combining several procedures into a single device.**

The patented InTray™ system consists of a re-closable outer seal containing an optically clear, anti-fog window. The innovative design of the InTray™ high-performance viewing window makes it possible to place the device directly under a microscope during bacterial colony counts. This prevents unnecessary exposure of the sample after inoculation. By combining both growth and observation into one fully enclosed device, BioMed's InTray™ system negates the need for multiple procedures increasing throughput and decreasing the cost of laboratory materials and medical waste.

Additionally, the InTray™ design lends itself to high performance in laboratory and controlled settings, and also off-site locations or austere environments. The InTray™ KF Strep is fully enclosed and does not require additive reagents for identification. Since all the needed growth factors are contained within the system as an agar, the potential for total colony count errors due to movement is mitigated when compared to liquid growth media.

The InTray™ system is also equipped with a small air filter creating a controlled air exchange, which maintains the integrity of the growth environment once resealed. The InTray™ KF Strep contains a chromogenic agent, Triphenyl Tetrazolium Chloride (TTC), giving color to colonies facilitating detection and enumeration.

Visual Results:

- *E. faecalis* and other enterococci - Red to pink
- Gram-negative bacteria – Marked inhibition

QUALITY CONTROL

At the time of manufacture, quality control tests are preformed on each lot of InTray™ KF Strep using ATCC™ strains to ensure viability and sterility. These tests are repeated throughout the product shelf life by BioMed Diagnostics confirming the products ability to support growth of selected species while maintaining specificity.

BACKGROUND

Fecal streptococci can be found in the digestive systems of humans and warm-blooded animals. The presence of streptococci in surface or recreational waters is used as an indicator of fecal contamination.

Enterococci, a subgroup of streptococci, are distinguished by their ability to survive in high salt environments. The EPA recommends enterococci be used as the best indicator of health risk when sampling surface waters used for recreation.

DIRECTIONS

Prior to inoculation the InTray™ KF Strep should be brought to room temperature.

To inoculate the InTray™ KF Strep, pull back the lower right corner of the label adjacent to the clear window until the protective seal is completely visible. Remove the seal by pulling the tab, discard the seal, but do not remove the white filter strip over the vent hole. Place the membrane filter on the surface of the agar in the InTray™ KF Strep.

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To culture the sample, reseal the InTray™ by returning the label to its original position so, the optically clear anti-fog window covers the medium and press the edges of the label against the plastic tray to ensure an airtight seal before being stored for incubation.

Best practice suggests incubation in an aerobic atmosphere at 35 ±2 °C for 46-48hrs. The specificity of the test is dependent on the incubation temperature. For examination using a microscope, place the InTray™ KF-Strep on the microscope stage and observe.

REFERENCES

1. Eaton, Clesceri, Rice and Greenberg (ed.). 2005. *Standard Methods for the Examination of Water and Waste Water, 21st ed*. American Public Health Association, Washington D.C

2. Bordner and Winter (ed). 1978. *Microbiological methods for monitoring the environment, water and wastes*. EPA 600/8-78-017. U.S. Environmental Protection Agency, Cincinnati, OH.

3. *Water: Monitoring and Assessment*, 5.11 Fecal Bacteria. Environmental Protection Agency. September 29, 2011.

CORPORATE OVERVIEW

BioMed Diagnostics, Inc., a boutique biotech firm and an industry leader since 1989, develops and manufactures *in vitro* diagnostic devices. BioMed's point-of-care ready tests provide accurate diagnostic tools for scientists worldwide to aid in the identification of bacteria, parasites and fungi. The company formed as the result of a mercy mission conducted by a group of physicians to Central America; there they discovered the need for robust diagnostic tools for use in austere environments. Their experience unleashed the inspiration for BioMed's innovative products that support medical professionals, veterinarians, research teams, and environmental and industry scientists globally.

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