Technical Data

# Hiculture Sterile Swabs w/ Soya Lecithin (0.07%w/v) & Tween 80 (0.5%v/v) MS5286

Recommended as neutralizers to inactivate residual disinfectants from where the sample is collected.

## Composition**

| Ingredients | Gms / Litre |
|---|---|
| Soya lecithin | 0.700 |
| Tween 80 | 5.000 |

**Formula adjusted, standardized to suit performance parameters

## Directions

Using the capped swab, provided along with the media containing tube, collect the sample to be transported and insert back the capped swab with the sample till the bottom of the medium. Tighten the cap firmly. The specimen will be preserved during transportation and also the viability of the organisms will be maintained but it will diminish over the time. After the transportation, the specimen should be inoculated in proper medium as soon as possible. The cultures on transport swabs must not be kept at room temperature for more than 24 hours.

## Principle And Interpretation

A strongly bacteriostatic substance inhibits the growth and reproduction of bacteria without killing them. These bacteria hold the ability to cause infection under favourable conditions. Neutralization Test: Growth in Neutralizing Broth and no growth in Neutralizing Broth Base indicate neutralization of disinfectant. To check bactericidal activity, both broth tubes can be inoculated on D/E Neutralizing Agar (1).

Soya lecithin and polysorbate 80 are neutralizers reported to inactivate residual disinfectants from where the sample is collected (2). Lecithin neutralizes quartenery ammonium compounds and polysorbate 80 neutralizes phenolic disinfectants, hexachlorophene formalin, and with lecithin neutralizes ethanol (3). Collection of samples from areas before and after the treatment with disinfectant evaluates cleaning procedures in environmental sanitation.

## Quality Control

**Appearance**
HiCulture sterile swabs with Soya Lecithin (0.07%w/v) & Tween 80 (0.5%v/v) in tube with sterile cotton swab
**Colour**
Clear colourless solution
**Quantity of Medium**
2 ml of medium in tubes

**Sterility test**
Passes release criteria

**Cultural response**
Viability of following was established for a period of 18-24 hours for bacterial cultures and 48-72 hours for fungal cultures . Organisms grew luxuriantly when recovered on Tryptone Soya Agar (M290) and incubated at 35-37°C for 18-72 hours.

| Organism | Recovery |
|---|---|
| *Bacillus subtilis ATCC 6633* | luxuriant |
| *Staphylococcus aureus ATCC 25923* | luxuriant |
| *Staphylococcus aureus ATCC 6538* | luxuriant |
| *Escherichia coli ATCC 25922* | luxuriant |
| *Escherichia coli ATCC 8739* | luxuriant |
| *Pseudomonas aeruginosa ATCC 27853* | luxuriant |
| *Pseudomonas aeruginosa ATCC 9027* | luxuriant |
| *Salmonella Abony NCTC 6017* | luxuriant |
| *Micrococcus luteus ATCC 9341* | luxuriant |
| *Streptococcus pneumoniae ATCC 6305* | luxuriant |
| *Salmonella Typhimurium ATCC 14028* | luxuriant |
| *Candida albicans ATCC 10231* | luxuriant |
| *Candida albicans ATCC 2091* | luxuriant |
| *Aspergillus brasiliensis ATCC 16404* | Luxuriant |

## Storage and Shelf Life

On receipt, the above product to be stored between 5-25°C

## Reference

1. Engley and Dey, 1970. Chem. Spec. Manuf. Assoc. Proc., Mid-Year Meet., p. 100.
2. Brummer; 1976 appl Environ. Microbiol 32:80.
3. Favero (Clairm); 1967, Biological Contamination Control Committee, a state of the ant report., Am Assoc. for contamination control.

Revision : 00 / 2016