Technical Data

# HiCulture™ Transport Swabs w/ Stuart Transport Medium MS306

## Intended Use:

Recommended for transportation of *Neisseria* species and other fastidious organisms from clinic to laboratory.

## Composition**

| Ingredients | Gms / Litre |
|---|---|
| Calcium chloride | 0.100 |
| Sodium glycerophosphate | 10.000 |
| Sodium thioglycollate | 1.000 |
| Methylene blue | 0.002 |
| Agar | 3.000 |
| Final pH ( at 25°C) | 7.4±0.2 |

**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.Discard the cap of the tube and insert 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. Some growth of contaminants may occur during longer period of transport. 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

Stuart transport medium was designed by Stuart for Gonococci (3). The medium is chemically defined, semisolid, non-nutrient medium which will prevent microbial proliferation. Because of composition of medium microorganisms are able to survive for a sufficiently long period. The medium provides sufficient anaerobiosis which is monitored by means of the redox indicator methylene blue. Calcium chloride and glycerophosphate provide a good buffering capacity to the medium and also maintains osmotic equilibrium in the medium. Sterile cotton swabs allow absorption of specimen material while polylpropylene shaft allows semiflexibility to the swab stick, aiding in collection. Stuart transport medium was designed by Stuart for Gonococci (3). The medium is chemically defined, semisolid, non-nutrient medium which will prevent microbial proliferation. Because of composition of medium microorganisms are able to survive for a sufficiently long period. The medium provides sufficient anaerobiosis which is monitored by means of the redox indicator methylene blue. Calcium chloride and glycerophosphate provide a good buffering capacity to the medium and also maintains osmotic equilibrium in the medium. Sterile cotton swabs allow absorption of specimen material while polylpropylene shaft allows semiflexibility to the swab stick, aiding in collection.

## Type of specimen

Clinical samples - Gonococcal specimens.

## Specimen Collection and Handling

For clinical samples follow appropriate techniques for handling specimens as per established guidelines (1,2).
After use, contaminated materials must be sterilized by autoclaving before discarding.

## Warning and Precautions :

In Vitro diagnostic Use only. Read the label before opening the container. Wear protective gloves/protective clothing/ eye protection/ face protection. Follow good microbiological lab practices while handling specimens and culture. Standard precautions as per established guidelines should be followed while handling clinical specimens. Safety guidelines may be referred in individual safety data sheets.

## Limitations :

1. Further recovery from this enriched medium onto selective media is required.

## Performance and Evaluation

Performance of the medium is expected when used as per the direction on the label within the expiry period when stored at recommended temperature.

## Quality Control

**Appearance**
Sterile Stuart Transport Medium in tubes with sterile viscous swabs
**Colour**
Whitish to light blue coloured medium
**Quantity of Medium**
8ml of medium in tubes
**Sterility test**
Passes release criteria
**Reaction**
7.20-7.60
**Cultural response**
Viability of following organisms was established for a period of 48 hours.Organisms grew luxuriantly when inoculated on Chocolate Agar (M103) and incubated at 35 - 37°C for 18-24 hours.

| Organism | Recovery |
|---|---|
| *Neisseria gonorrhoeae* ATCC 19424 | Luxuriant |
| *Streptococcus pneumoniae* ATCC 6303 | Luxuriant |
| *Haemophilus influenzae* ATCC 35056 | Luxuriant |

## Storage and Shelf Life

Store between 5-25°C. Use before expiry date on the label. Product performance is best if used within stated expiry period.

## Disposal

User must ensure safe disposal by autoclaving and/or incineration of used or unusable preparations of this product. Follow established laboratory procedures in disposing of infectious materials and material that comes into contact with clinical sample must be decontaminated and disposed of in accordance with current laboratory techniques (1,2).

## Reference

1. Isenberg, H.D. Clinical Microbiology Procedures Handbook 2nd Edition
2. Jorgensen, J.H., Pfaller, M.A., Carroll, K.C., Funke, G., Landry, M.L., Richter, S.S and Warnock., D.W. (2015) Manual of Clinical Microbiology, 11th Edition. Vol. 1.
3. Stuart, 1946, Glasgow Med. J. 27:131

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IVD — In vitro diagnostic medical device

CE Marking


Storage temperature

Do not use if package is damaged

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