



## Stuart Transport Medium w/o Sodium Glycerophosphate

M1203

### Intended Use:

Used for routine transport of *Gonococcus* species and other fastidious organisms.

### Composition\*\*

Ingredients	g / L
Calcium chloride anhydrous	0.100
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

Suspend 4.1 grams in 1000 ml double distilled water. Add 10 grams of sodium glycerophosphate. Heat to boiling to dissolve the medium completely. Dispense into tubes with screw caps to give a depth of approximately 7 cm. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes and after sterilization, tighten the caps. Cool the tubes immediately in an upright position. Care should be taken that the water is free from chlorine.

### Principle And Interpretation

Stuart Transport media was originally designed by Stuart while studying Gonococci (1). This medium may be used for the transportation of many fastidious organisms including the anaerobes by maintaining organisms viability without significant multiplication. This medium is a chemically defined, semisolid, non-nutrient medium which prevent microbial proliferation. Because of this composition the medium ensures that microorganisms present are able to survive for a sufficiently long period of time. The medium provide an adequate degree of anaerobiosis which can be monitored by means of the redox indicator methylene blue. Prepared sterile medium will undergo a slight degree of oxidation at the upper periphery of the medium, however, if the tube or vial exhibits a distinct blue colour throughout the medium, it should be discarded. Calcium chloride act as good buffering agent and also maintains osmotic equilibrium in the media.

### Type of specimen

Clinical samples - Gonococcal specimens.

### Specimen Collection and Handling:

For clinical samples follow appropriate techniques for handling specimens as per established guidelines (2,3). After use, contaminated materials must be sterilized by autoclaving before discarding.

### Warning and Precautions :

In Vitro diagnostic Use. For professional 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. Individual organisms differ in their growth requirement and may show variable growth patterns on the medium.

### 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

White to light blue homogeneous free flowing powder

**Gelling**

Semisolid, comparable with 0.3% Agar gel.

**Colour and Clarity of prepared medium**

Colourless to whitish coloured slightly opalescent butt with upper 10% or less portion blue on standing.

**Reaction**

Reaction of 0.41% w/v aqueous solution at 25°C. pH : 7.4±0.2

**pH**

7.20-7.60

**Cultural Response**

Cultural characteristics observed after an incubation at 35-37°C for 72 hours when subcultured from Stuart Transport Medium.

Organism	Growth	Subculture Medium
<i>Haemophilus influenzae</i> ATCC 35056	good	Chocolate Agar (incubated in CO <sub>2</sub> atmosphere)
<i>Neisseria gonorrhoeae</i> ATCC 19424	good	Chocolate Agar (incubated in CO <sub>2</sub> atmosphere)
<i>Streptococcus pneumoniae</i> ATCC 6303	good	Tryptone Soya Agar with 5% sheep blood.

**Storage and Shelf Life**

Store between 10-30°C in a tightly closed container and the prepared medium at 5-30°C. Use before expiry date on the label. On opening, product should be properly stored dry, after tightly capping the bottle in order to prevent lump formation due to the hygroscopic nature of the product. Improper storage of the product may lead to lump formation. Store in dry ventilated area protected from extremes of temperature and sources of ignition. Seal the container tightly after use. 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 (2,3).

**Reference**

1. Stuart 1946, Glasgow Med J-27:131.
2. Isenberg, H.D. Clinical Microbiology Procedures Handbook 2nd Edition
3. 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.

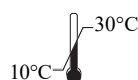
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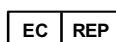
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