TM 2350 - STUART TRANSPORT MEDIUM W/O SODIUM GLYCEROPHOSPHATE

INTENDED USE

With addition of sodium glycerophosphate, is used for routine transport of *Gonococcus* species and other fastidious organisms.

PRODUCT SUMMARY AND EXPLANATION

Stuart Transport media was originally designed by Stuart while studying Gonococci. 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.

COMPOSITION

Ingredients	Gms / Ltr
Calcium chloride	0.100
Sodium thioglycollate	1.000
Methylene blue	0.002
Agar	3.000

PRINCIPLE

The medium provides 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.

INSTRUCTION FOR USE

- Dissolve 4.1 grams in 1000 ml double purified / 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 psi 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.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder : White to light blue coloured homogeneous free flowing powder.
Appearance of prepared medium : Colourless to whitish coloured slightly opalescent butt with upper 10% or less portion blue on standing.
pH (at 25°C) : 7.4±0.2

INTERPRETATION

Cultural characteristics observed after an incubation when sub cultured from Stuart Transport Medium.

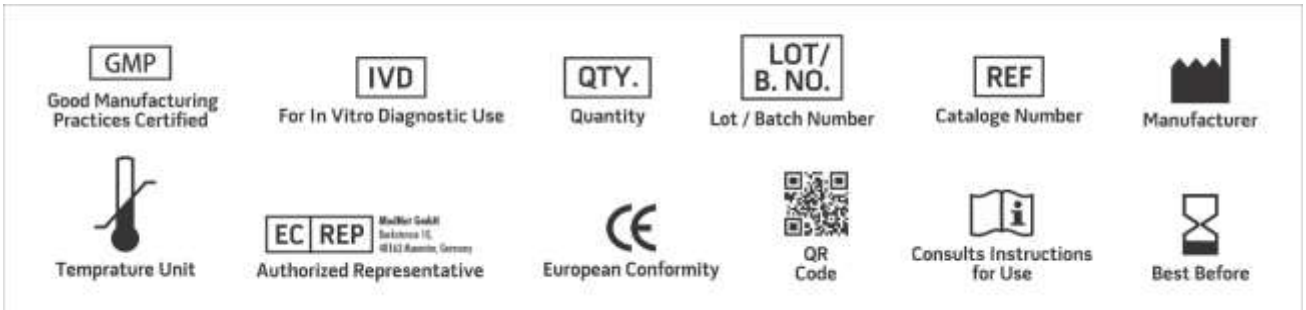
Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Subculture Medium	Incubation Temperature	Incubation Period
Haemophilus influenzae	49247	50-100	Good	Chocolate agar (incubated in Co_2 atmosphere)	35 - 37°C	72 Hours
Neisseria gonorrhoeae	19424	50-100	Good	Chocolate agar (incubated In Co_2 atmosphere)	35 - 37°C	72 Hours
Streptococcus pneumoniae	6303	50-100	Good	Tryptone soya agar with 5% sheep blood	35 - 37°C	72 Hours

PACKAGING:
In pack size of 100 gm and 500 gm bottles.

STORAGE
Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 25-30°C and protect from direct sunlight. Under optimal conditions, the medium has a shelf life of 4 years. When the container is opened for the first time, note the time and date on the label space provided on the container. After the desired amount of medium has been taken out replace the cap tightly to protect from hydration.
Product Deterioration: Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

DISPOSAL
After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

REFERENCES
1. Stuart 1946, Glasgow Med J-27:131.



NOTE: Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.
***For Lab Use Only**
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