BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B325	**STUART TRANSPORT MEDIUM**
Formula	
Ingredients :	**gms/lit.**
Sodium thioglycollate	1.00
Sodium glycerophosphate	10.00
Calcium chloride	0.10
Methylene blue	0.002
Agar	3.00
Final pH (at 25°C) : 7.4 ± 0.2	

Directions :

Suspend 14.1 grams in 1000 ml double distilled water. 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 :

These media are chemically defined, semisolid, non –nutrient media which prevent microbial proliferation. Because of this composition the media ensures that microorganisms present are able to survive for a sufficiently long period of time. The media provide an adequate degree of anaerobiosis which can be monitored by means of the redox indicator methylene blue. Calcium chloride alongwith sodium glycerophosphate act as good buffering agent and also maintains osmotic equilibrium in the media.

QC Tests – (I)Dehydrated Medium	
Colour :	White to light blue
Appearance :	Homogeneous Free Flowing powder
(II)Rehydrated medium	
pH (post autoclaving/heating) :	7.4 ± 0.2
Colour (post autoclaving/heating) :	Colourless to whitish
Clarity (post autoclaving/heating) :	Slightly opalescent butt with upper 10% or less portion blue on standing
(III)Q.C. Test Microbiological	

Cultural characteristics observed after 72 hrs.at 35-37°C, when subcultured from Stuart Transport Medium.

MICROORGANISM (ATCC)	GROWTH	SUBCULTURE MEDIUM
Haemophilus influenzae (35056)	Good	Chocolate agar (incubated in CO2 atmosphere)
Neisseria gonorrhoeae (19424)	Good	Chocolate agar (incubated in CO2 atmosphere)
Streptococcus pneumoniae (6303)	Good	Tryptone Soya Agar with 5% sheep blood.

Precautions :	1. For Laboratory Use.
	2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.
Limitations :	1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.
Use:	For preservation and transportation of Neisseria species and other fastidious organisms from clinic to the laboratory.
Storage:	Dehydrated medium- below 30°C Prepared medium– Between 2 to 8°C.
Packing :	500 gm. bottle

Product profile:	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
B325	14.1g/l	35.460L	7.4 ± 0.2	NIL	121^0C / 15 minutes