

B147	STUART TRANSPORT MEDIUM W/O SODIUM GLYCEROPHOSPHATE					
Formula						
Ingredients :		gms/lit.				
Calcium chloride		0.10				
Sodium thioglycollate		1.00				
Methylene blue		0.002				
Agar		3.00				
Final pH (at 25°C) :		7.4 ± 0.2				
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 :						
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 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.						
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 an incubation at 35-37°C for 72 hours when subcultured from Stuart Transport Medium						
MICROORGANISM (ATCC)		GROWTH	SUBCULTURE MEDIUM			
Haemophilus influenzae (35056)		good	* Chocolate agar			
Neisseria gonorrhoeae (19424)		good	* Chocolate agar			
Streptococcus pneumoniae (6303)		good	Tryptone Soya Agar with 5% sheep blood.			
Key: * = Incubation in CO ₂ atmosphere.						
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 :		It is used for routine transport of <i>Gonococcus</i> species and other fastidious organisms.				
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
B147	4.12 g/l		121.359L	7.4 ± 0.2	NIL	121°C / 15 minutes

Refer disclaimer Overleaf

Disclaimer:

User must ensure suitability of the product(s) in their application prior to use. Products conform solely to the information contained in this and other related BIOMARKLABORATORIES publications.

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