

B103	AMIES TRANSPORT MEDIUM WITH CHARCOAL		
Formula			
Ingredients :		gms/lit.	
Sodium chloride	3.00		
Potassium chloride	0.20		
Calcium chloride	0.10		
Magnesium chloride	0.10		
Monopotassium phosphate	0.20		
Disodium phosphate	1.15		
Sodium thioglycollate	1.00		
Charcoal	10.00		
Agar	4.00		
Final pH (at 25°C) : 7.2 ± 0.2			
Directions :			
Suspend 19.75gms. in 1000 ml. distilled water. Boil to dissolve the medium completely. Dispense in screwcap bottles or tubes in 6 ml. or desired quantity. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool in an upright position. Turn the tubes several times while agar is solidifying to maintain uniform suspension of charcoal particles.			
Principle :			
Amies Transport Medium provides a reduced environment due to the presence of sodium thioglycollate and small amount of agar. Charcoal helps to neutralize materials that are toxic to sensitive pathogens like Neisseria gonorrhoeae. Calcium magnesium, potassium and sodium salts help the survival of gonococcal cells and also control permeability of bacterial cells. Phosphates buffer the medium.			
For the collection of the specimens, use sterile cotton-tipped swabs or wooden sticks. Push the swab down one third of the medium depth. When the cap is screwed down, the swab is forced to the bottom of the medium. The cap should be firmly screwed. Keep the medium cool during transportation but do not freeze. The specimen will be preserved during transportation and also the viability of the organisms will be maintained. But the viability will diminish over the time. Some growth of contaminants may also occur during longer period of transport. After transportation, the specimen should be inoculated in proper medium as soon as possible. For optimum results, the time lapse between sample collection and inoculum onto culture medium should be reduced to the minimum.			
The cultures on transport swabs must not be kept at room temperature for more than 24 hours.			
Type of specimen: Clinical samples - pathological samples			
Specimen Collection and Handling: For clinical samples follow appropriate techniques for handling specimens as per established guidelines. After use, contaminated materials must be sterilized by autoclaving before discarding.			
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.			
QC Tests - (I) Dehydrated Medium			
Colour :	Grey to Black		
Appearance :	Homogeneous Free Flowing powder		
(II) Rehydrated medium			
pH (post autoclaving/heating) :	7.2 ± 0.2		
Colour (post autoclaving/heating) :	Black		
Clarity (post autoclaving/heating) :	Opaque		
(III) Q.C. Test Microbiological			
Cultural characteristics observed after 18-24 hrs. at 35-37°C when sub cultured on Tryptone Soya Agar (B039)			
MICROORGANISM (ATC)	Inoculum (CFU)	RECOVERY	
Escherichia coli (25922)	50-100	Luxuriant	
Klebsiella pneumoniae (13883)	50-100	Luxuriant	
Pseudomonas aeruginosa (27853)	50-100	Luxuriant	
Salmonella typhi (6539)	50-100	Luxuriant	
Shigella flexneri (12022)	50-100	Luxuriant	
Staphylococcus aureus (25923)	50-100	Luxuriant	
Vibrio cholerae (15748)	50-100	Luxuriant	
Neisseria meningitidis (13090)	50-100	Luxuriant	
Refer disclaimer Overleaf		Page 01 of 02	

TECHNICAL SHEET

Warning & Precautions :	For Laboratory Use. In Vitro diagnostic Use only. 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 :	<ol style="list-style-type: none"> 1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium. 2. Charcoal may tend to settle in old prepared medium, hence it should be steamed and mixed well to resuspend the charcoal particles 3. During media preparation, avoid overheating of the medium in open flasks or bottles as thioglycollate present in the medium is volatile. 					
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					
Use :	For preservation and transportation of microbiological specimens.					
Storage :	Dehydrated medium-below 30°C Prepared medium- Between 2 to 8°C.					
Packing :	500/100 gm. bottle					
Product profile:	Reconstitution	Quantity on Preparation (500g) (100g)		pH (25°C)	Supplement	Sterilization
B103	19.75 g/l	25.32 L	5.06L	7.2 ± 0.2	Nil	121°C /15 min.

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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