

TECHNICAL SHEET

B509	EDWARDS AND BRUNER SEMISOLID MEDIUM					
Formula						
Ingredients :		gms/lit.				
Peptic digest of animal tissue		10.00				
Meat extract B #		3.00				
Gelatin		80.00				
Sodium chloride		5.00				
Agar		4.00				
# Equivalent to beef extract						
Final pH (at 25°C) : 6.9 ± 0.2						
Directions :						
Suspend 102 gms. in 1000 ml. distilled water. Heat to boiling to dissolve the medium completely. Dispense in tubes and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool the tubes in an upright position.						
Principle :						
Edwards and Bruner formulated this semisolid medium. It is used in routine identification of enteric bacilli by means of motility and separation of H and O phases. Peptic digest of animal tissue and meat extract B provides all the essential growth nutrients required by enteric bacilli. Cultures are inoculated by stabbing with a straight wire. Motile organisms grow diffusely and spread through the medium while nonmotile organisms grow along the line of stab inoculation.						
QC Tests – (I)Dehydrated Medium						
Colour :		Light beige				
Appearance :		Homogeneous Free Flowing powder				
(II)Rehydrated medium						
pH (post autoclaving/heating) :		6.9 ± 0.2				
Colour (post autoclaving/heating) :		Light amber				
Clarity (post autoclaving/heating) :		Clear to slightly opalescent				
(III)Q.C. Test Microbiological						
Cultural characteristics observed after 18 - 24 hrs. at 30-35°C.						
MICROORGANISM (ATCC)		GROWTH		MOTILITY		
Enterobacter aerogenes (13048)		Luxuriant		+		
Proteus mirabilis (25933)		Luxuriant		+		
Escherichia coli (25922)		Good - luxuriant		+		
Salmonella enteritidis (13076)		Good - luxuriant		+		
Salmonella typhimurium (14028)		Good - luxuriant		+		
Shigella sonnei (25931)		Good - luxuriant		-		
Staphylococcus aureus (25923)		Good - luxuriant		-		
Key : + = positive reaction - = negative reaction						
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 detection of motility and separation of H and O phases of enteric bacilli.				
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
B509	102g/l	4.90L	6.9 ± 0.2	Nil	121°C / 15 minutes	

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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