

TECHNICAL SHEET

B023	EMB BROTH	
Formula		
Ingredients:	gms/lit.	
Peptic digest of animal tissue	10.00	
Dipotassium phosphate	2.00	
Lactose	5.00	
Sucrose	5.00	
Eosin-Y	0.40	
Methylene blue	0.065	
Final pH (at 25°C): 7.2 ± 0.2		
Directions:		
Suspend 22.46 grams in 1000 ml distilled water. Mix until suspension is uniform. Heat, if necessary, to dissolve the medium completely. Dispense and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. AVOID OVERHEATING. Cool to 50°C and shake the medium in order to oxidize the methylene blue (i.e., to restore its blue colour) and to suspend the flocculant precipitate.		
Principle:		
Peptic digest of animal tissue serves as source of carbon, nitrogen, and other essential growth nutrients. Lactose and sucrose are the sources of energy by being fermentable carbohydrates. Eosin-Y and methylene blue serve as differential indicators. Phosphate buffers the medium.		
QC Tests – (I) Dehydrated Medium		
Colour:	Light pink to purple	
Appearance:	Homogeneous Free Flowing powder	
(II) Rehydrated medium		
PH (post autoclaving/heating):	7.2 ± 0.2	
Colour (post autoclaving/heating):	Reddish purple with greenish cast	
Clarity (post autoclaving/heating):	Opalescent	
(III) Q.C. Test Microbiological		
Cultural characteristics observed after 18-24 hrs. at 35-37°C.		
MICROORGANISM (ATCC)	GROWTH	COLOUR OF MEDIUM
Escherichia coli (25922)	Luxuriant	Purple, may have green metallic sheen
Proteus mirabilis (25933)	Luxuriant	Colourless
Salmonella typhimurium (14028)	Luxuriant	Colourless
Enterobacter aerogenes (13048)	Good	Pink, without sheen
Klebsiella pneumoniae (13883)	Good	Pink, mucoid
Staphylococcus aureus (25923)	Inhibited	---
Precautions :	<ol style="list-style-type: none"> 1. For Laboratory Use. 2. Follow proper, established laboratory procedures in handling and disposing of infectious materials. 3. Store the medium away from light to avoid photooxidation. 	

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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 differentiation of gram-negative enteric bacteria.				
Storage :	Dehydrated medium- below 30°C Prepared medium – Between 2 to 8°C keep away from light				
Packing :	500 gm bottle				
Product profile:	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
B023	22.46 g/l	22.261 L	7.2 ± 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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