

**BIOMARK Laboratories-INDIA**

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**TECHNICAL SHEET**

<b>B102</b>	<b>A C BROTH</b>			
<b>Formula</b>				
<b>Ingredients:</b>		<b>gms/lit.</b>		
Proteose peptone		20.00		
Meat Extract B#		3.00		
Yeast extract		3.00		
Malt extract		3.00		
Dextrose		5.00		
Ascorbic acid		0.20		
#- Equivalent to Beef extract				
Final pH (at 25°C) : 7.2 ± 0.2				
<b>Directions :</b>				
Suspend 34.2 grams in 1000 ml of purified / distilled water. Heat if necessary to dissolve the medium completely. Distribute in tubes or bottles to give the desired depth and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.				
If the medium is not used on same day, it is advisable to drive off dissolved gases by boiling or steaming in the autoclave and cool without agitation.				
<b>Principle:</b>				
Proteose peptone, Meat Extract B, yeast extract and malt extract serve as the carbon and nitrogen sources in addition to being a source of vitamins and cofactors. Dextrose serves as the fermentable carbohydrate source of energy. Ascorbic acid in the media helps to improve the clarity of the medium				
<b>Type of specimen:</b> Pharmaceutical samples- Environmental monitoring				
<b>Specimen Collection and Handling:</b> After use, contaminated materials must be sterilized by autoclaving before discarding.				
<b>Performance and Evaluation:</b> Performance of the medium is expected when used as per the direction on the label within the expiry period when stored at recommended temperature.				
<b>QC Tests – (I)Dehydrated Medium</b>				
	Colour :	Cream to yellow		
	Appearance :	Homogeneous Free Flowing powder		
<b>(II)Rehydrated medium</b>				
	pH (post autoclaving/heating) :	7.2 ± 0.2		
	Colour (post autoclaving/heating) :	Medium amber		
	Clarity (post autoclaving/heating) :	Clear to slightly opalescent solution		
<b>(III)Q.C. Test Microbiological</b>				
	Cultural characteristics observed after an incubation at 35-37°C for 18-24 hours. (Clostridium species incubated anaerobically).			
	MICROORGANISM (ATCC)	Inoculum (CFU)	GROWTH	
	Clostridium perfringens (12919)	50-100	Luxuriant	
	Neisseria meningitidis (13090)	50-100	Luxuriant	
	Streptococcus pneumoniae (6303)	50-100	Luxuriant	
	Streptococcus mitis (9811)	50-100	Luxuriant	
	Staphylococcus aureus (25923)	50-100	Luxuriant	
	Escherichia coli (25922)	50-100	Luxuriant	
<b>Warning &amp; Precautions :</b>	For Laboratory Use. 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 specimens. Safety guidelines may be referred in individual safety data sheets.			
<b>Limitations :</b>	1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.			
<b>Disposal:</b>	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 sample must be decontaminated and disposed of in accordance with current laboratory techniques.			
<b>Use:</b>	For cultivation of common aerobes and sterility testing of solutions and biological products without mercurial preservatives.			
<b>Storage:</b>	Dehydrated medium-below 30°C Prepared medium- Between 2 to 8°C.			
<b>Packing :</b>	500 gm. bottle			
<b>Product</b>	Reconstitution	Quantity on	pH (25°C)	Supplement
				Sterilization

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<b>profile:</b>		Preparation (500g)			
<b>B102</b>	34.20 g/l	14.62 L	7.2± 0.2	Nil	121 <sup>0</sup> 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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