

BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B020	DEXTROSE BROTH					
Formula						
Ingredients :		gms/lit.				
Tryptose		10.00				
Meat extract B#		3.00				
Dextrose		5.00				
Sodium chloride		5.00				
#Equivalent to Beef extract						
Final pH (at 25°C) :		7.2 ± 0.2				
Directions :						
Suspend 23 grams in 1000 ml purified / distilled water. Heat if necessary to dissolve the medium completely. Dispense into tubes or flasks or as desired. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes..						
Principle :						
Meat extract B and Tryptose provide nitrogen, amino acids and vitamins. Dextrose is a carbon source, and the increased concentration is a distinguishing characteristic of this medium from other formulations used as blood agar bases. Sodium chloride maintains osmotic equilibrium. Dextrose Broth can also be used for anaerobic growth by the addition of 0.1- 0.2% Agar. Agar, thus added, helps to disperse the growth formed and also expel the CO2 formed.						
Supplementation with 5% blood provides additional growth factors for fastidious microorganisms.						
QC Tests – (I) Dehydrated Medium						
Colour :		Cream to yellow				
Appearance :		Homogeneous Free Flowing powder				
(II) Rehydrated medium						
pH (post autoclaving/heating) :		7.2 ± 0.2				
Colour (post autoclaving/heating) :		Light yellow				
Clarity (post autoclaving/heating) :		Clear				
(III) Q.C. Test Microbiological						
Cultural characteristics observed after 18-24 hrs. at 35-37°C.						
MICROORGANISM (ATCC)		GROWTH		Gas		
Escherichia coli (25922)		Good-luxuriant		Positive reaction		
Neisseria meningitidis (13090)		Good-luxuriant		Negative reaction		
Neisseria gonorrhoeae (19424)		Good-luxuriant		Negative reaction		
Streptococcus pyogenes (19615)		Good-luxuriant		Negative reaction		
Streptococcus pneumoniae (6305)		Good-luxuriant		Negative reaction		
Staphylococcus aureus (25923)		Good-luxuriant		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 :		Recommended for cultivation of wide variety of microorganisms.				
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
B020	23g/l	21.739L		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 BIOMARK LABORATORIES publications.

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