

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	Growth (with 0.1% Agar)	
	Escherichia coli (25922)	Good-luxuriant	Positive reaction	Good-luxuriant	
	Neisseria meningitidis (13090)	Good-luxuriant	Negative reaction	Good-luxuriant	
	Neisseria gonorrhoeae (19424)	Good-luxuriant	Negative reaction	Good-luxuriant	
	Streptococcus pyogenes (19615)	Good-luxuriant	Negative reaction	Good-luxuriant	
	Streptococcus pneumoniae (6305)	Good-luxuriant	Negative reaction	Good-luxuriant	
	Staphylococcus aureus (25923)	Good-luxuriant	Negative reaction	Good-luxuriant	
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
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 BIOMARKLABORATORIES publications.

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