

TECHNICAL SHEET

B165	DEXTROSE AGAR					
Formula						
Ingredients :			gms/lit.			
Tryptose			10.00			
Meat Extract B#			3.00			
Dextrose (Glucose)			10.00			
Sodium chloride			5.00			
Agar			15.00			
#- Equivalent to Beef extract						
Final pH (at 25°C) :			7.3 ± 0.2			
Directions :						
Suspend 43 grams in 1000 ml purified / distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45-50°C. If desired, Blood Agar can be prepared by the addition of 5% v/v sterile, defibrinated sheep blood into sterile Dextrose Agar. Mix well and pour into sterile Petri plates.						
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. Agar is a solidifying agent. Sodium chloride maintains osmotic equilibrium. Supplementation with 5% blood provides additional growth factors for fastidious microorganisms.						
QC Tests - (I) Dehydrated Medium						
Colour :			Cream to light yellow			
Appearance :			Homogeneous Free Flowing powder			
(II) Rehydrated medium						
pH (post autoclaving/heating) :			7.3 ± 0.2			
Colour (post autoclaving/heating) :			Basal medium :Light yellow , After addition of 5%v/v sterile defibrinated blood :Cherry red coloured,			
Clarity (post autoclaving/heating) :			Basal medium :clear to slightly opalescent gel; After addition :opaque gel forms in Petri plates			
(III) Q.C. Test Microbiological						
Cultural characteristics observed after 18-24 hrs.at 35-37°C.						
MICROORGANISM (ATCC)		GROWTH (PLAIN)		GROWTH W/BLOOD		
Bordetella pertussis (8467)		Good		Luxuriant		
Neisseria meningitidis (13090)		Good		Luxuriant		
Neisseria gonorrhoeae (19424)		Good		Luxuriant		
Streptococcus pyogenes (19615)		Good		Luxuriant		
Clostridium perfringens (12919)		Fair-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. 2. Further biochemical and serological tests must be carried out for further identification.				
Use:		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
B165		43g/l	11.627L	7.3 ± 0.2	5% v/v sterile, defibrinated sheep blood, if desired	121°C / 15 minutes

Refer disclaimer Overleaf

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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