

BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B085		TELLURITE BLOOD AGAR BASE				
Formula						
Ingredients :		gms/lit.				
Biopeptone		10.00				
Sodium chloride		5.00				
Dipotassium hydrogen phosphate		4.00				
Corn starch		1.00				
Monopotassium phosphate		1.00				
Agar		10.00				
Final pH (at 25°C) : 7.2 ± 0.2						
Directions :						
Suspend 31 grams in 500 ml distilled water to make a double strength base. 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. Aseptically add sterile prepared Haemoglobin solution (BF036) (10 grams in 490ml distilled water) and sterile reconstituted contents of one vial of Vitamino Growth Supplement (BF037) and 1%Potassium Tellurite (BF010). Mix well and pour into sterile Petri plates.						
Principle :						
Biopeptone provides nitrogenous compounds. Sodium chloride maintains the osmotic equilibrium of the medium while phosphates buffer the medium. Corn starch neutralizes the toxic metabolites. Haemoglobin and Vitamino Growth Supplement stimulate good growth of Corynebacterium. Potassium tellurite acts as a selective agent and has inhibitory activity against most gram-positive and gram-negative bacteria except Corynebacterium species. C.diphtheriae reduces potassium tellurite to tellurium and thereby produce gray-black coloured colonies.						
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) :		a) Yellow b) With the addition of haemoglobin : Reddish brown				
Clarity (post autoclaving/heating) :		a) Clear b) Opaque				
(III)Q.C. Test Microbiological						
Cultural characteristics observed along with added supplements after an incubation at 35-37°C for 48 hours (or more).						
MICROORGANISM (ATCC)		GROWTH		COLOUR OF COLONY		
Corynebacterium diphtheriae (11913)		Good – luxuriant		Grey – black		
Escherichia coli (25922)		Inhibited		-		
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 :		For the selective isolation and cultivation of Corynebacterium species.				
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
B085		31g/l	16.129L	7.2 ± 0.2	Haemoglobin (BF036) Vitamino Growth Supplement (BF037) 1% Potassium Tellurite (BF010).	121°C /15 min.