BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B1310	**GLUCOSE AGAR**
Formula	
Ingredients :	**gms/lit.**
Tryptone	2.00
Glucose	10.00
Sodium chloride	5.00
Yeast extract	1.00
Potassium hydrogen phosphate	0.30
Bromothymol blue	0.080
Agar	2.50
Final pH (at 25°C) :	7.1 ± 0.2

Directions :

Suspend 20.88 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (1210C) for 15 minutes and dispense as desired.

Principle :

Tryptone and Yeast extract provide essential nutrients for growth: nitrogen, vitamins, minerals and amino acids; Glucose is the fermentable carbohydrate providing ca The glucose fermenting microorganisms produce yellow colour (acid) and the non-fermenting ones, blue colour or colourless. rbon and energy; Sodium chloride maintains the osmotic balance; Bromothymol blue is a pH indicator.

QC Tests – (I)Dehydrated Medium			
	Colour :	Light yellow to light green	
	Appearance :	Homogeneous Free Flowing powder	
(II)Rehydrated medium			
	pH (post autoclaving/heating) :	7.1 ± 0.2	
	Colour (post autoclaving/heating) :	Blue green	
	Clarity (post autoclaving/heating) :	Clear to slightly opalescent	
(III)Q.C. Test Microbiological			
	Cultural characteristics observed after 18-24 hrs at 35-37°C.		
	MICROORGANISM (ATCC)	GROWTH	ACID PRODUCTION
	Enterobacter aerogenes (13048)	Good	Positive reaction(Colour changes to yellow)
	Escherischia coli (25922)	Good	Positive reaction(Colour changes to yellow)
	Salmonella Typhimurium (14028)	Good	Positive reaction(Colour changes to yellow)

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 :	It is recommended for differentiation of Enterobacteriaceae in urine, water and food samples.
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
B1310	20.88g/l	23.946L	7.1 ± 0.2	NIL	121^0C / 15 minutes

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