BIOMARK Laboratories-INDIA
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TECHNICAL SHEET

B971	**CASEIN YEAST MAGNESIUM AGAR**
Formula	
Ingredients :	**gms/lit.**
Casein enzymic hydrolysate	10.00
Yeast extract	5.00
Sodium chloride	5.00
Magnesium sulphate	0.98
Agar	15.00

Final pH (at 25°C) : 7.0 ± 0.2

Directions :

Suspend 35.98 gms in 1000 ml. distilled water. Heat gently to dissolve the medium completely. Sterilize by autoclaving at 15lbs pressure (121°C) for 15 minutes.

Principle :

The medium constituents like casein enzymic hydrolysate and yeast extract supply the essential nutrients and cofactors required for excellent growth of recombinant strains of E.coli Sodium chloride maintains the osmotic balance of the medium. Magnesium sulphate is incorporated as a source of magnesium ion necessary in a variety of enzymatic reactions including DNA replication.

QC Tests – (I)Dehydrated Medium		
	Colour :	Light beige
	Appearance :	Homogeneous Free Flowing powder
(II)Rehydrated medium		
	pH (post autoclaving/heating) :	7.0 ± 0.2
	Colour (post autoclaving/heating) :	Light to medium amber
	Clarity (post autoclaving/heating) :	Clear solution or slightly opalescent
(III)Q.C. Test Microbiological		
	Cultural characteristics observed after 18 –24 hrs.at 35-37°C.	
	MICROORGANISM (ATCC)	GROWTH
	Escherichia coli (23724)	Good - luxuriant
	Escherichia coli (53868)	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 :	For cultivation of recombinant strains of Escherichia coli.
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
B971	35.98g/l	13.89L	7.0 ± 0.2	NIL	121^0C / 15 minutes