

TECHNICAL SHEET

B972	CASEIN YEAST MAGNESIUM BROTH					
Formula						
Ingredients :		gms/lit.				
Casein enzymic hydrolysate		10.00				
Yeast extract		5.00				
Sodium chloride		5.00				
Magnesium sulphate		0.98				
Final pH (at 25°C) : 7.0 ± 0.2						
Directions :						
Suspend 21 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
B972		21G/L	23.80L	7.0 ± 0.2	NIL	121°C / 15 minutes