TECHNICAL SHEET

B970	**CASEIN MAGNESIUM BROTH**

Formula

Ingredients :	**gms/lit.**
Casein enzymichydrolysate	10.00
Sodium chloride	5.00
Magnesium sulphate	0.94

Final pH (at 25°C) : 7.0 ± 0.2

Directions :

Suspend 16 gms. in 1000 ml. distilled water. Heat if necessary to dissolve the medium completely. Sterilize by autoclaving at 15lbs pressure (121°C) for 15 minutes.

Principle :

Casein enzymichydrolysate supply the essential nitrogenous nutrients for the growth of recombinant E. coli. Sodium chloride maintains the osmotic balance of the medium. Magnesium sulphate is incorporated in the medium as magnesium ion which is necessary for a variety of enzymatic reactions including the 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) :	Amber
	Clarity (post autoclaving/heating) :	Clear
(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 use in the 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
B970	16g/l	31.25L	7.0 ± 0.2	NIL	121^0C / 15 minutes

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