

TECHNICAL SHEET

B1057	SOB MEDIUM (HANAHANS BROTH)					
Formula						
Ingredients :		gms/lit.				
Casein enzymic hydrolysate		20.00				
Yeast extract		5.00				
Sodium chloride		0.50				
Magnesium sulphate		2.40				
Potassium chloride 0.186						
Final pH (at 25°C) : 7.0± 0.2						
Directions :						
Suspend 28.08 grams in 1000 ml distilled water. Heat if necessary to dissolve the medium completely. Dispense in tubes and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.						
Principle :						
Casein enzymic hydrolysate and yeast extract in the medium supply nitrogenous compounds and growth factors for the recombinant E. coli. Potassium and sodium chloride maintains isotonic conditions. Magnesium sulphate is added to the medium as the necessary component for DNA replication.						
QC Tests - (I) Dehydrated Medium						
Colour :		Cream to yellow				
Appearance :		Homogeneous Free Flowing powder				
(II) Rehydrated medium						
PH (post autoclaving/heating) :		7.0 ± 0.2				
Colour (post autoclaving/heating) :		Medium amber				
Clarity (post autoclaving/heating) :		Clear solution without any precipitate				
(III) Q.C. Test Microbiological						
Cultural characteristics observed after an incubation at 35-37°C for 18-24 hours.						
MICROORGANISM		GROWTH				
Escherichia coli DH5 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 :		It is recommended for use in 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
B1057	28.08 g/l	17.806 L	7.0 ± 0.2	NIL	121°C / 15 minutes	

Disclaimer:

User must ensure suitability of the product(s) in their application prior to use. Products conform solely to the information contained in this and other related BIOMARK LABORATORIES publications.

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