

B1227	5X MINIMUM SALTS					
Formula						
Ingredients :		gms/lit.				
Disodium phosphate		33.90				
Potassium phosphate		15.00				
Sodium chloride		2.50				
Ammonium chloride		5.00				
Final pH (at 25°C) : 6.8 ± 0.2						
Directions :						
Suspend 56.4 grams in 1000 ml distilled water. Heat if necessary to dissolve the medium completely. Dispense in 200 ml aliquots. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. To prepare minimal medium, add 200 ml sterile 5X Minimal Salts to 750 ml sterile distilled water. Aseptically add 20 ml filter sterilized 20% glucose solution and 2 ml sterile 0.1 M Magnesium sulphate (MgSO ₄) solution. If desired, add sterile 0.1 ml of 1.0 M Calcium chloride solution or amino acids as required. Mix well. Adjust final volume to 1000 ml.						
Principle :						
Ammonium chloride is added as a nitrogen source. Glucose serves as the carbon and energy source while two phosphates buffer the medium against pH changes due to utilization of carbohydrate. Calcium and magnesium ions are required in a variety of enzymatic reactions including DNA replication. Sodium chloride maintains the osmotic balance.						
QC Tests – (I) Dehydrated Medium						
Colour :		White to cream				
Appearance :		Homogeneous Free Flowing powder				
(II) Rehydrated medium						
pH (post autoclaving/heating) :		6.8 ± 0.2				
Colour (post autoclaving/heating) :		Colourless				
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 18-24hours.						
MICROORGANISM (ATCC)		GROWTH				
Escherichia coli (25922)		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
B1227		56.4 g/l	8.865 L	6.8 ± 0.2	filter sterilized 20% glucose solution and 2 ml sterile 0.1 M Magnesium sulphate	121°C / 15minutes

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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