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 (MgSO4) 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	121^0C / 15minutes

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