

**TECHNICAL SHEET**

<b>B1228</b>	<b>MINIMUM SALTS WITH CASEIN ACID HYDROLYSATE</b>					
<b>Formula</b>						
<b>Ingredients :</b>		<b>gms/lit.</b>				
Casein acid hydrolysate		4.00				
Disodium hydrogen phosphate		6.80				
Monopotassium hydrogen phosphate		3.00				
Sodium chloride		0.50				
Ammonium chloride		1.00				
Dextrose		4.00				
Magnesium sulphate		0.24				
Final pH (at 25°C) : 6.8 ± 0.2						
<b>Directions :</b>						
Suspend 19.54 gms in 1000ml distilled water. Boil to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.						
<b>Principle :</b>						
Casein acid hydrolysate supply many amino acids (except tryptophan) to E.coli. Ammonium chloride is added as a nitrogen source. Dextrose serves as the carbon and energy source while two phosphates buffer the medium against pH changes due to the utilization of carbohydrate. Magnesium ions are required in a variety of enzymatic reactions including DNA replication.						
<b>QC Tests - (I) Dehydrated Medium</b>						
Colour :		Light yellow				
Appearance :		Homogeneous Free Flowing powder				
<b>(II) Rehydrated medium</b>						
pH (post autoclaving/heating) :		6.8 ± 0.2				
Colour (post autoclaving/heating) :		Light amber				
Clarity (post autoclaving/heating) :		Clear to slightly opalescent				
<b>(III) Q.C. Test Microbiological</b>						
Cultural characteristics observed after 18 -24 hrs. at 35 ± 2°C.						
MICROORGANISM (ATCC )		GROWTH				
Escherichia coli (B) (23226)		Luxuriant				
<b>Precautions :</b>		1. For Laboratory Use. 2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.				
<b>Limitations :</b>		1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.				
<b>Use :</b>		For the cultivation of E.Coli strains used for genetic and molecular studies.				
<b>Storage :</b>		Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.				
<b>Packing :</b>		500 gm bottle				
<b>Product profile:</b>		Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
<b>B1228</b>		19.54 g/l	25.58L	6.8 ± 0.2	NIL	121°C / 15 minutes

**Disclaimer:**

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