B1140	**BACILLUS DIFFERENTIATION AGAR**
Formula	
Ingredients:	**gms/litre**
Yeast autolysate	0.20
Mannitol	5.00
Monohydrogen ammonium phosphate	1.00
Potassium chloride	0.20
Magnesium sulphate	0.20
Bromo cresol purple	0.0075
Agar	15.40
Final pH (at 25°C): 7.2 ± 0.2	
Directions:	
Suspend 22.0 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.	
Principle:	
Yeast autolysate provide necessary nitrogenous source for growth of Bacillus. Magnesium sulphate and Potassium chloride supports sporulation. Ammonium phosphate maintains buffering action. Bromocresol purple act as a pH indicator to detect mannitol fermentation.	

QC Tests – (I)Dehydrated Medium	
Colour:	Light yellow to light green
Appearance:	Homogeneous Free Flowing powder
(II)Rehydrated medium	
pH (post autoclaving/heating) :	7.2 ± 0.2
Colour (post autoclaving/heating):	Light purple
Clarity (post autoclaving/heating):	Clear to slightly opalescent
(III)Q.C. Test Microbiological	
Cultural characteristics observed after18-24 hours at 35-37°C.	

ORGANISM (ATCC)	GROWTH	COLOUR
Bacillus cereus (10876)	luxuriant	colourless
Bacillus subtilis (6633)	luxuriant	yellow

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 used for the differentiation between Bacillus cereus and Bacillus subtilis based on mannitol fermentation
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
B1140	22.00 g/l	22.72L	7.2 ± 0.2	None	121^0C / 15 minutes