

TECHNICAL SHEET

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 after 18-24 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		22.00g/l	22.72L	7.2 ± 0.2	None	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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