

TECHNICAL SHEET

B852	MP-5 MEDIUM					
Formula						
Ingredients :			gms/lit.			
Pectin			5.00			
Monopotassium phosphate			4.00			
Disodium phosphate			6.00			
Ammonium sulphate			2.00			
Yeast extract			1.00			
Ferrous sulphate			0.001			
Magnesium sulphate			0.20			
Calcium chloride			0.001			
Boric acid			0.00001			
Manganese sulphate			0.00001			
Zinc sulphate			0.00007			
Copper sulphate			0.00005			
Molybdenum trioxide			0.00001			
Agar			15.00			
Final pH (at 25°C) :			5.5 ± 0.2			
Directions :						
Suspend 33.2 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. Mix well and pour into sterile Petri plates. Due to presence of various inorganic salts, slight precipitate may develop upon heating. Shake well before pouring into sterile Petri plates. Polysaccharide precipitant solution : Dissolve 1.0 gm of hexadecyltrimethyl ammonium bromide in 100 ml of water and the solution is sterilized by autoclaving if desired.						
Principle :						
Detection of pectinolytic activity of an organism is carried out either by observing depression in the gel around the colony where the substrate has been degraded or by flooding the plate with a precipitant solution.						
QC Tests – (I) Dehydrated Medium						
Colour :		Cream to yellow				
Appearance :		Homogeneous Free Flowing powder				
(II) Rehydrated medium						
pH (post autoclaving/heating) :		5.5 ± 0.2				
Colour (post autoclaving/heating) :		Yellow				
Clarity (post autoclaving/heating) :		clear to slightly opalescent gel				
(III) Q.C. Test Microbiological						
Cultural characteristics observed after an incubation at 30-35°C for 2-3 days.						
MICROORGANISM (ATCC)		Polygalacturonase production				
Aspergillus brasiliensis (16404)		positive, clear halo around the colony when flooded with 1% polysaccharide precipitant.				
Fusarium moniliforme		positive, clear halo around the colony when flooded with 1% polysaccharide precipitant				
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 detection of pectinolytic microorganisms especially those producing polygalacturonase.				
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
B852		33.20 g/l	15.060 L	5.5 ± 0.2	NIL	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 BIOMARKLABORATORIES publications.

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