

TECHNICAL SHEET

B553	HOFERS ALKALINE MEDIUM				
Formula					
Ingredients :		gms/lit.			
Mannitol		10.00			
Dipotassium phosphate		0.50			
Magnesium sulphate		0.20			
Sodium chloride		0.10			
Yeast extract		1.00			
Thymol blue		0.0016			
Agar		15.00			
Final pH (at 25°C) : 11.0 ± 0.2					
Directions :					
Suspend 26.8 gms 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 :					
The medium is supplemented with the mannitol as the carbohydrate or carbon source. Yeast extract provides nitrogenous nutrients. Sodium chloride maintains osmotic balance of the medium. Dipotassium phosphate buffers the medium. Thymol blue is the pH indicator which remains blue at high alkaline pH.					
QC Tests - (I) Dehydrated Medium					
Colour :		Yellow			
Appearance :		Homogeneous Free Flowing powder			
(II) Rehydrated medium					
pH (post autoclaving/heating) :		11.0 ± 0.2			
Colour (post autoclaving/heating) :		Blue			
Clarity (post autoclaving/heating) :		Clear to slightly opalescent			
(III) Q.C. Test Microbiological					
Cultural characteristics observed after upto 5 days at 28°C.					
MICROORGANISM (ATCC)		GROWTH			
Agrobacterium luteum (25657)		Luxuriant			
Rhizobium trifolii (10140)		inhibited			
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 :					
For selective isolation of Agrobacterium species while inhibiting Rhizobium species from soil samples.					
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
B553	26.8 g/l	18.65 L	11.0 ± 0.2	Nil	121°C/15min.

Disclaimer:

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