

B672	PHENOL RED EGG YOLK POLYMYXIN AGAR BASE (MYP AGAR BASE)				
Formula					
Ingredients :		gms/lit.			
Peptic digest of animal tissue	10.00				
Meat extract	1.00				
D-Mannitol	10.00				
Sodium chloride	10.00				
Phenol red	0.025				
Agar	15.00				
Final pH (at 25°C) : 7.1 ± 0.2					
Directions :					
Suspend 46.03 grams in 900 ml distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 55°C. Aseptically add rehydrated contents of 2 vials of sterile Polymyxin B Sulphate (BF005) solution to a final concentration of 100 units per ml and 100 ml sterile Egg Yolk Emulsion (BF003). Mix well and pour into sterile Petri plates.					
Principle:					
Peptic digest of animal tissue and meat extract, which provide nitrogen source. Mannitol fermentation can be detected by phenol red, which yields yellow colour to the mannitol fermenting colonies due to acid production. Added egg yolk emulsion helps in differentiation of lecithinase producing colonies, which are surrounded by a zone of white precipitate. Addition of Polymyxin B Sulphate (BF005) helps to restrict growth of gram-negative bacteria.					
QC Tests – (I) Dehydrated Medium					
Colour :	Light yellow to light pink				
Appearance :	Homogeneous Free Flowing powder				
(II) Rehydrated medium					
pH (post autoclaving/heating) :	7.1 ± 0.2				
Colour (post autoclaving/heating) :	A) Basal medium : Red B) (After addition of Egg Yolk Emulsion) : Light orange				
Clarity (post autoclaving/heating) :	A) Clear to slightly opalescent B) Opaque				
(III) Q.C. Test Microbiological					
Cultural characteristics observed with added Egg Yolk Emulsion (BF003) and Polymyxin B Sulphate (BF005) after an incubation at 32°C for 18-40 hours.					
MICROORGANISM (ATCC)	GROWTH	COLOUR OF COLONY	LECITHINASE		
Bacillus subtilis (6633)	Luxuriant	Yellow	Negative		
Bacillus cereus (10876)	Luxuriant	Red	Positive, opaque zone around the colony		
Proteus mirabilis (25933)	Luxuriant	Red	Negative		
Staphylococcus aureus (25923)	Luxuriant	Yellow	Positive, opaque zone around the colony		
Escherichia coli (25922)	None – poor	--	Negative		
Pseudomonas aeruginosa (27853)	None – poor	--	Negative		
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 isolation and identification of pathogenic Staphylococci and Bacillus species.				
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
B672	46.03 g/l	10.862L	7.1 ± 0.2	Egg Emulsion (BF003) and Polymyxin Sulphate (BF005) Yolk and B	121°C / 15 minutes

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TECHNICAL SHEET