B831	**YEAST PHOSPHATE AGAR**
Formula	
Ingredients :	**gms/lit.**
Yeast extract	1.00
Disodium phosphate	0.20
Monopotassium dihydrogen phosphate	0.30
Phenol red	0.001
Agar	20.00
Final pH (at 25°C): 7.0 ± 0.2	

Directions :

Suspend 21.50 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. Cool up to 50°C and pour into sterile Petri plates to make deep-filled plates to reduce the drying effect during prolonged incubation. After inoculating the plate, add one drop of concentrated ammonia at the edge of the medium. Allow the plates to remain undisturbed for 20 minutes before inverting.

Principle :

Yeast extract provides nitrogenous nutrients and vitamin B complex to support fungal growth. Phosphates buffer the medium. A drop of ammonia added to the surface of the inoculated plate inhibits bacteria, yeasts and saprophytic fungi present in clinical specimens without affecting dimorphic fungi like Blastomyces and Histoplasma. Phenol red changes colour of the medium from orange yellow to pink on addition of ammonia. Phenol red also shows loss of alkalinity as the ammonia volatilizes and the pH falls below 7.0.

QC Tests – (I)Dehydrated Medium			
	Colour :	Cream to beige	
	Appearance :	Homogeneous Free Flowing powder	
(II)Rehydrated medium			
	pH (post autoclaving/heating) :	7.0 ± 0.2	
	Colour (post autoclaving/heating) :	Beige	
	Clarity (post autoclaving/heating) :	Clear to slightly opalescent gel in plates	
(III)Q.C. Test Microbiological			
	Cultural characteristics observed after 48- 72 hrs at 25- 30°C		
	MICROORGANISM (ATCC)	GROWTH	
	Blastomyces dermatidis (14112)	luxuriant	
	Candida albicans (26790)	luxuriant	
	Histoplasma capsulatum(10230)	luxuriant	

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 generally used for isolation of dimorphic pathogenic fungi from clinical specimens.
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
B831	21.50 g/l	23.26L	7.0 ± 0.2	Concentrated ammonia	121^0C/15 min.