B307	ROSE BENGAL AGAR BASE

Formula	
Ingredients :	**gms/lit.**
Papaic digest of soyabean meal	5.00
Dextrose	10.00
Monopotassium phosphate	1.00
Magnesium sulphate	0.50
Rose bengal	0.05
Agar	15.00

Final pH (at 25°C) : 7.2 ± 0.2

Directions :

Suspend 31.55 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 to 40-45°C and add 2 ml of rehydrated Chloramphenicol Selective Supplement (BF004) for each 500 ml of medium. Mix thoroughly and pour into sterile Petri plates.

Principle :

Papaic digest of soyabean meal provides the carbon and nitrogen sources required for good growth of a wide variety of organisms. Dextrose is an energy source. Monopotassium phosphate provides buffering capability. Magnesium sulphate provides necessary trace elements. Rose bengal is a selective agent that inhibits bacterial growth and restricts the size and height of colonies of the more rapidly growing molds. Rose bengal is taken up by yeast and mold colonies, thereby facilitating their recognition and enumeration. Chloramphenicol Selective Supplement (BF004) inhibit bacteria.

QC Tests – (I)Dehydrated Medium	
Colour :	Light yellow to pink
Appearance :	Homogeneous Free Flowing powder
(II)Rehydrated medium	
pH (post autoclaving/heating) :	7.2 ± 0.2
Colour (post autoclaving/heating) :	Deep pink
Clarity (post autoclaving/heating) :	Clear to slightly opalescent
(III)Q.C. Test Microbiological	

Cultural characteristics observed after an incubation at 20-25°C for 5 days with added Chloramphenicol Selective Supplement (BF004).

MICROORGANISM (ATCC)	GROWTH	
Aspergillus niger (16404)	Good	
Candida albicans (10231)	Good	
Escherichia coli (25922)	Inhibited	
Micrococcus luteus (10240)	Inhibited	
Saccharomyces cerevisiae (9763)	Good	

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.
	2. Although this medium is selctive primarily for fungi, microscopic examination is recommended for presumptive identification. Biochemical testing using pure cultures is required for complete identification.
	3. Due to the selective properties of this medium and the type of specimen being cultured, some strains of fungi may be encountered that fail to grow or grow poorly on the complete medium; similarly, some strains of bacteria may be encountered that are not inhibited or only partially inhibited.

Refer disclaimer Overleaf

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	4. Care should be taken not to expose this medium to light since photodegradation of rose bengal yields compounds that are toxic to fungi.				
Use :	For selective isolation enumeration of yeasts and molds from environmental materials and food stuffs.				
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
B307	31.55 g/l	15.84 L	7.2 $\pm$ 0.2	Chloramphenicol selective supplement (BF004)	121^0C/15 min.