

TECHNICAL SHEET

B703	ROSE BENGAL CHLORAMPHENICOL AGAR	
Formula		
Ingredients:	gms/lit.	
Mycological peptone	5.00	
Dextrose (Glucose)	10.00	
Potassium dihydrogen phosphate	1.00	
Magnesium sulphate	0.50	
Rose bengal	0.05	
Chloramphenicol	0.10	
Agar	15.50	
Final pH (at 25°C) : 7.2 ± 0.2		
Directions :		
Suspend 32.15 grams in 1000 ml purified/distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45-50°C. Mix well and pour into sterile Petri plates.		
Principle :		
Mycological peptone 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 sulfate provides necessary trace elements. Rose Bengal is included as a selective agent that inhibits bacterial growth and restricts the size and height of colonies of the more rapidly growing molds. The restriction in growth of molds aids in the isolation of slow growing fungi by preventing overgrowth by more rapidly growing species. Rose Bengal is taken up by yeast and mold colonies, thereby facilitating their recognition and enumeration. Chloramphenicol inhibits bacteria. Agar is the solidifying agent.		
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 25-30°C for 5 days.		
MICROORGANISM (ATCC)	GROWTH	
Aspergillus niger (16404)	Good-luxuriant	
Cladosporium cladosporoides (45534)	Good-luxuriant	
Mucor racemosus (42647)	Good-luxuriant	
Penicillium notatum (10108)	Good-luxuriant	
Saccharomyces cerevisiae (9763)	Good-luxuriant	
Enterococcus faecalis (29212)	Inhibited	
Escherichia coli (25922)	Inhibited	
Bacillus subtilis (6633)	Inhibited	

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Precautions :	1. For Laboratory Use.				
	2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.				
	3. TOXIC. May cause cancer. Possible risk of harm to the unborn child. Avoid contact with skin and eyes. Do not breathe dust. Wear suitable protective clothing. Keep container tightly closed. Target organ(s) : Blood, Nerves, Lymph Glands, Eyes.				
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 selective 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.				
	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 foods and environmental materials.				
Storage :	Dehydrated medium and prepared medium – Between 2 to 8°C.				
Packing :	500 gm. bottle				
Product profile:	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
	B703	32.15 g/l	15.55L	7.2 ± 0.2	Nil