

# Rose Bengal Agar Modified



Medium used for the isolation and cultivation of fungi from environmental and food specimens.

## • CONTENTS (Liter)

Soytone	5.0 g
Glucose	10.0 g
Monopotassium Phosphate	1.0 g
Magnesium Sulfate	0.5 g
Rose Bengal	0.035 g
Agar	20.0 g
Final pH = 6.0 ± 0.2 at 25°C	

## • PROCEDURE

Suspend 36.54 G of powder in 1 L of distilled or deionized water. Heat to boiling until completely dissolved. Sterilize by autoclave at 121°C for 15 minutes. Cool to 45 - 50°C in water bath. Aseptically add 2 vials of Rose Bengal Agar Modified supplement (MB-R0769) or appropriate amount of another antibiotic. Mix well. Pour into petri dishes.

### Rose Bengal Agar Modified supplement

1 vial contents (Each vial is sufficient for 500 mL of medium)

Chlortetracycline	0.0175 g
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## • INTERPRETATION

Rose Bengal Agar Modified is a medium used for the isolation and cultivation of fungi from environmental and food specimens. Soytone provides nitrogen, carbon, vitamins and minerals. Glucose is the source of carbohydrate. Monopotassium phosphate is the buffering agent. Magnesium sulfate provides trace elements. Rose bengal inhibits bacterial growth and restricts the size and height of colonies of the more rapidly growing molds. Agar is the solidifying agent. Chlortetracycline inhibits a wide range of Gram-negative and Gram-positive bacteria.

## • TECHNIC

Inoculate the specimen using a sterile loop to the medium. Incubate at 25 - 30°C for up to 4 days. Refer appropriate references for recommended test procedure.

## • QUALITY CONTROL FOR USE

### Dehydrated medium

Appearance: free-flowing, homogeneous

Color: beige to faint pink

### Prepared medium

Appearance: slightly opalescent

Color: pink

Incubation conditions: 25 - 30°C / up to 4 days

Microorganism	ATCC	Inoculum CFU	Growth
<i>Aspergillus niger</i>	16404	Heavy	good
<i>Candida albicans</i>	10231	50-100	good
<i>Saccharomyces cerevisiae</i>	76625	50-100	good
<i>Escherichia coli</i>	25922	≥10 <sup>3</sup>	inhibited

## • STORE

The powder is very hygroscopic. Store the powder at room temperature, in a dry environment, in its original container tightly closed and use it before the expiry date on the label. Store prepared medium at 2 - 8°C.

## • REFERENCES

1. Cooke. 1954. *Antibiot. Chemother.* 4:657.
2. Clesceri, Greenberg and Eaton (ed.). 1998. *Standard methods for the examination of water and wastewater*, 20th ed. American Public Health Association, Washington, D.C.
3. Dixon, Rhodes and Fromtling. 1999. In Murray, Baron, Pfaller, Tenover and Tenover (ed.), *Manual of clinical microbiology*, 7th ed. American Society for Microbiology, Washington, D.C.
4. Waksman. 1922. *J. Bacteriol.* 7:339.
5. Taplin, Azias, Rebell and Blank. 1969. *Arch. Dermatol.* 99:203.
6. Banks, Board and Paton. 1985. *Lett. Appl. Microbiol.* 1:7.
7. Beuchat and Cousin. 2001. In Downes and Ito (ed.), *Compendium of methods for the microbiological examination of foods*, 4th ed. American Public Health Association, Washington, D.C.

## • PACKAGE

Cat. No : MB-R1179 Rose Bengal Agar Modified	500 G
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