

Rose Bengal Agar Base Modified No.2



Selective medium used with or without supplement in isolation 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	0.033 g
Agar	20.0 g
Final pH = 7.2 ± 0.2 at 25°C.	

• PROCEDURE

Suspend 36.5 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 Streptomycin supplement (MB-S0786). Mix well. Dispense in petri dishes.

Streptomycin supplement

1 vial contents (Each vial is sufficient for 500 mL of medium)
Streptomycin 15.0 mg

• INTERPRETATION

Rose Bengal Agar Base Modified No.2 is a selective medium used with or without supplement in isolation of fungi from environmental and food specimens. Soytone provides nitrogen, carbon, vitamins and minerals. Glucose is a source of carbohydrate for fermentation. 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 moulds. Agar is the solidifying agent. Streptomycin is a broad-spectrum antibiotic inhibited to a wide range of gram-negative and gram-positive bacteria.

• TECHNIC

Inoculate the plates with spreading the specimen on surface of the medium using a sterile loop. Incubate at 22 ± 2 °C for up to 3 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: bright pink.

Incubation conditions: 22 ± 2 °C / up to 3 days

Microorganism	ATCC	Inoculum CFU	Growth
<i>Aspergillus niger</i>	16404	50-100	good
<i>Saccharomyces cerevisiae</i>	76625	50-100	good
<i>Candida albicans</i>	10231	50-100	good
<i>Escherichia coli</i>	25922	≥10 ³	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 or until signs of deterioration or contamination are evident. 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-R0762 Rose Bengal Agar Base Modified No.2	500 G
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