

Rose Bengal Agar Base



Medium used for the selective isolation and enumeration of yeasts and moulds.

• CONTENTS (Liter)

Soytone	5.0 g
Glucose	10.0 g
Monopotassium Phosphate	1.0 g
Magnesium Sulfate	0.5 g
Rose Bengal	0.05 g
Agar	15.0 g
Final pH = 7.2 ± 0.2 at 25°C.	

• PROCEDURE

Suspend 31.55 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 Chloramphenicol supplement (MB-C1817). Mix well. Dispense in petri dishes.

Chloramphenicol supplement

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

Chloramphenicol 50.0 mg

• INTERPRETATION

Rose Bengal Agar Base is a medium used for the selective isolation and enumeration of yeasts and moulds from environmental materials and foodstuffs. Soytone provides nitrogen, carbon, vitamins and minerals. Glucose is 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 moulds. Agar is the solidifying agent. Chloramphenicol 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 7 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: 22 ± 2 °C / up to 7 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. Waksman, S.A. (1922). J. Bacteriol. 7: 339-341.
2. Martin, J.P. (1950). Soil Sci. 69: 215-232.
3. Mossel D. A. A., Visser M. and Mengerink W. H. J. (1962) Lab. Pract. 11. 109-112.
4. Koburger J. A. (1968) Bact. Proc. 13. A73.
5. Mossel D A. A., Vega C. L. and Put H. M. C. (1975) J. Appl. Bact. 39. 15-22.
6. American Public Health Association (1976) Compendium of Methods for the Microbiological Examination of Foods. APHA Inc. Washington DC.
7. Koberger, J.A. (1976). Yeasts and moulds, p. 225-229.
8. American Public Health Association (1978) Standard Methods for the Examination of Dairy Products. 14th Edn. APHA Inc. Washington DC.
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• PACKAGE

Cat. No : MB-R1178 Rose Bengal Agar Base	500 G
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• MICROBIAL CULTURE IMAGES



Aspergillus niger ATCC 16404



Candida albicans
ATCC 10231 (10-50CFU)



Saccharomyces cerevisiae
ATCC 76625 (10-50CFU)

Incubation conditions : 35±2°C 5days

Incubation conditions : 35±2°C 48h