Rose Bengal Broth

Medium used for the isolation and cultivation of yeasts and molds.

• 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

Final pH = 7.2 ± 0.2 at 25°C

• PROCEDURE

Suspend 16.55 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. Pour into tubes.

Chloramphenicol supplement

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

Chloramphenicol	50.0 mg

• INTERPRETATION

Rose Bengal Broth is a medium used for the isolation and cultivation of yeasts and molds. Soy peptone provides nitrogen, carbon, vitamins and minerals. Glucose is a carbohydrate. Monopotassium phosphate is the buffering agent. Magnesium sulfate provides trace elements. Rose bengal inhibits bacterial growth. Chloramphenicol is a broad-spectrum antibiotic inhibited to a wide range of Gram-negative and Gram-positive bacteria.

• TECHNIC

Inoculate the specimen with stab using a sterile needle to the medium. 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: pinkish-beige
Prepared medium
Appearance: slightly opalescent, may have a slight pink precipitate
Color: pink
Incubation conditions: 22 ± 2 °C / up to 7 days

Microorganism	ATCC	Inoculum CFU	Growth
Aspergillus niger	16404	50-100	good
Candida albicans	10231	50-100	good
Saccharomyces cerevisiae	76625	50-100	good
Escherichia coli	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.
9. American Public Health Association (1981) Standard Methods for the Examination of Water and Wastewater. 15th Edn. APHA Inc. Washington DC.

• PACKAGE

Cat. No : MB-R0801 Rose Bengal Broth	500 G