

# Rose Bengal Agar Base Modified No.3



Medium used for the cultivation and enumeration of yeasts and moulds.

## • CONTENTS (Liter)

Peptone	5.0 g
Glucose	10.0 g
Monopotassium Phosphate	1.0 g
Magnesium Sulfate	0.5 g
Rose Bengal	0.0133 g
Agar	14.0 g
Final pH = 7.2 ± 0.2 at 25°C.	

## • PROCEDURE

Suspend 30.6 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. Mix well. Dispense in petri dishes.

## • INTERPRETATION

Rose Bengal Agar Base Modified No.3 is a medium used for the cultivation and enumeration of yeasts and moulds. Peptone 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.

## • 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: light beige.

### Prepared medium

Appearance: clear with no precipitate.

Color: 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

## • 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. The Chinese Pharmacopoeia.

## • PACKAGE

Cat. No : MB-R0994 Rose Bengal Agar Base Modified No.3	500 G
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## • MICROBIAL CULTURE IMAGES



None



*Candida albicans* ATCC 10231

Incubation conditions : 20-25°C 5 days