

DRBC (Dichloran Rose Bengal Chloramphenicol) Agar



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

*Equally use with MFDS and Rose Bengal Dichloran Agar (MB-R2237).

• CONTENTS (Liter)

Peptic Digest of Animal and Plant Tissues	5.0 g
D-Glucose	10.0 g
Potassium Dihydrogen Phosphate	1.0 g
Magnesium Sulfate	0.5 g
Dichloran	0.002 g
Rose Bengal	0.025 g
Chloramphenicol	0.1 g
Agar	15.0 g
Final pH = 5.6 ± 0.2 at 25°C	

• PROCEDURE

Suspend 31.63 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. Pour into petri dishes.

• INTERPRETATION

DRBC (Dichloran Rose Bengal Chloramphenicol) Agar is a medium used for the isolation and cultivation of yeasts and molds. Peptic digest of animal and plant tissues provide nitrogen, carbon, vitamins and minerals for the growth of microorganisms. Glucose is the carbohydrate. Potassium dihydrogen phosphate is the buffering agent. Magnesium sulfate provides trace elements. Dichloran is the antifungal agent to reduce colony diameters of spreading fungi. Rose bengal inhibits bacterial growth and restricts the size and height of colonies of the more rapidly growing molds. Chloramphenicol is a broad-spectrum antibiotic and inhibits a wide range of Gram-negative and Gram-positive bacteria. Agar is the solidifying agent.

• TECHNIC

Inoculate the specimen using a sterile loop to the medium. Incubate at 25 ± 2°C for up to 5 days. Refer appropriate references for recommended test procedure.

• QUALITY CONTROL FOR USE

Dehydrated medium

Appearance: free-flowing, homogeneous

Color: pink

Prepared medium

Appearance: slightly opalescent

Color: bright pink

Incubation conditions: 25 ± 2°C / up to 5 days

Microorganism	ATCC	Inoculum CFU	Growth
<i>Aspergillus niger</i>	16404	heavy	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. Store prepared medium at 2 - 8°C.

• REFERENCES

1. King D.A. Jr., Hocking A.D. and Pitt J.I. 1979. J. Appl. Environ. Microbiol. 37:959.
2. U.S. Food and Drug Administration. 1995. Bacteriological analytical manual, 8th ed. AOAC International, Gaithersburg, Md.
3. Banks, Board and Paton. 1985. Lett. Appl. Microbiol. 1:7.
4. Refer to the MFDS.

• PACKAGE

Cat. No : MB-D0711 DRBC (Dichloran Rose Bengal Chloramphenicol) Agar	500 G
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