

**Revisions**


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Part Number: X6863		Category and Description Package Insert, Difco Rose Bengal Antimicrobial Supplement C	Sheet: 1 of 4 Scale: N/A	<b>A</b>

## **BD Difco™ Rose Bengal Antimicrobial Supplement C**

X6863(A)  
2003/12

See symbol glossary at end of insert. / Viz popis symbolů na konci příbalového letáku. / Se symbolglossaret i slutningen af indlægssedlen. / Zie lijst met symbolen aan het einde van de bijsluiting. / Vaadake sūmbolite seletust infolehe lõpus. / Katso pakkauselosteen lopussa olevaa kuvamerkkien sanastoa. / Voir le glossaire des symboles à la fin de la notice. / Siehe Symbol-Erklärungen am Ende der Packungsbeilage. / Δείτε το γλωσσάριο των συμβόλων στο τέλος του ένθετου. / A jelmagyarázat a használati utasítás végén található. / Vedere il glossario dei simboli alla fine del foglio illustrativo. / Žr. informacinio lapelio pabaigoje pateikiamą simbolių glosarijų. / Se i symbolforklaringen på slutten av produktvedlegget. / Zobacz objaśnienie symboli na końcu ulotki. / Consulte o glossário de símbolos no fim do folheto informativo. / Pozri slovník symbolov na konci letáka. / Consulte el glossario de símbolos al final del prospecto. / Se symbolförteckningen vid slutet av bipacksedeln.

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### INTENDED USE

Difco™ Rose Bengal Antimicrobial Supplement C (chloramphenicol 0.05 g) is used with Difco Rose Bengal Base for selectively isolating and enumerating yeasts and molds from environmental materials and foodstuffs.

### SUMMARY AND EXPLANATION

A number of methods have been described for the selective isolation of fungi from environmental materials and foodstuffs containing mixed populations of fungi and bacteria.

Rose Bengal Agar Base supplemented with Rose Bengal Antimicrobial Supplement C is a modification of the Rose Bengal Chlorotetracycline Agar formula of Jarvis.<sup>1</sup> Instead of chlorotetracycline, chloramphenicol is employed in this medium as a selective supplement. Of the antibiotics most frequently employed in media of neutral pH, chloramphenicol is recommended because of its heat stability and broad antibacterial spectrum.<sup>2</sup>

### PRINCIPLES OF THE PROCEDURE

Rose Bengal Antimicrobial Supplement C is a lyophilized antimicrobial supplement containing chloramphenicol which inhibits bacteria.

### REAGENTS

#### Difco™ Rose Bengal Antimicrobial Supplement C

Approximate Formula\* Per 3 mL Vial  
Chloramphenicol . . . . . 0.05 g

\*Adjusted and/or supplemented as required to meet performance criteria.

### Warnings and Precautions:

For Laboratory Use.

CAUSES IRRITATION. MAY CAUSE ALLERGIC SKIN REACTION. MAY CAUSE ALLERGIC RESPIRATORY REACTION.

POSSIBLE CANCER HAZARD BASED ON TESTS WITH LABORATORY ANIMALS. OVEREXPOSURE MAY CREATE CANCER RISK. VERY TOXIC BY INHALATION AND IN CONTACT WITH SKIN.

Do not get in eyes, on skin, on clothing. Do not breathe dust, vapor, mist or gas, as applicable. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.

**First aid:** IN CASE OF CONTACT, immediately flush eyes with plenty of water for at least 15 min. Call a physician. Flush skin with water. Wash clothing before reuse.

IF INHALED, remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Call a physician.

**Caution:** This product has been processed to render it free of microorganisms that would interfere with its intended use. The process has not been validated to the level required for an injectable drug or implantable device. The product has, however, passed a performance test for its intended use which included the demonstration of its freedom from interfering levels of microorganisms. Upon incorporation of this product into a testing system requiring sterility for proper performance, the entire system or a representative sample should be incubated to assure sterility before use.

Observe aseptic techniques and established precautions against microbiological hazards throughout all procedures. After use, prepared tubes, specimen containers and other contaminated materials must be sterilized by autoclaving before discarding.

**Storage Instructions:** On receipt, store at 2–8°C.

**Product Deterioration:** Verify that the physical characteristics of the powder are typical. The expiration date applies to the product in its intact container when stored as directed. Do not use a product if it fails to yield expected results described in "User Quality Control."

### PROCEDURE

**Material Provided:** Difco Rose Bengal Antimicrobial Supplement C.

**Materials Required But Not Provided:** Ethanol, Dehydrated culture media, reagents, quality control organisms and laboratory equipment as required for this procedure.

**Directions for Preparation from Dehydrated Product:****Difco™ Rose Bengal Antimicrobial Supplement C**

1. Aseptically add 3 mL ethanol per vial of supplement.
2. Invert several times to dissolve the powder.

**Difco™ Rose Bengal Agar Base**

1. Suspend 16 g of the powder in 500 mL of purified water. Mix thoroughly.
2. Heat with frequent agitation and boil for 1 min to completely dissolve the powder.
3. Autoclave at 121°C for 15 min. Cool to 45–50°C.
4. Aseptically add 3 mL rehydrated Rose Bengal Antimicrobial Supplement C to 500 mL of cooled agar base (final concentration of chloramphenicol is 100 mg/L). Mix thoroughly.

**Test Procedure**

1. Inoculate 0.1 mL of appropriate dilutions in duplicate on the solidified agar. Spread over the entire surface using a sterile bent glass rod.
2. Incubate plates at 25–30°C for up to 7 days.

**User Quality Control:****Identity Specifications:**

Lyophilized Appearance:	White cake, may be dispersed.
Rehydrated Appearance:	Colorless, clear.
Solubility:	Soluble in 3 mL ethanol.

**Cultural Response:**

Prepare **Difco** Rose Bengal Agar per label directions. Inoculate using the pour plate technique (for *Aspergillus niger*, inoculate the surface of an agar slant) and incubate aerobically at 25–30°C for up to 7 days.

ORGANISM	ATCCT™	INOCULUM CFU	RECOVERY	COLONY COLOR
<i>Aspergillus niger</i>	1015	10 <sup>2</sup> –3 x 10 <sup>2</sup>	Good	White
<i>Candida albicans</i>	10231	10 <sup>2</sup> –3 x 10 <sup>2</sup>	Good	Pink
<i>Escherichia coli</i>	25922	10 <sup>3</sup> –2 x 10 <sup>3</sup>	Marked to complete inhibition	–
<i>Micrococcus luteus</i>	10240	10 <sup>3</sup> –2 x 10 <sup>3</sup>	Marked to complete inhibition	–

**RESULTS**

Colonies of yeast appear pink due to the uptake of rose bengal. Count plates containing 15–150 colonies and report the counts as colony-forming units (CFU) per gram or mL of sample.

**LIMITATIONS OF THE PROCEDURE**

1. Although **Difco** Rose Bengal Agar is selective primarily for fungi, microscopic examination is recommended for presumptive identification. Biochemical testing using pure cultures is required for complete identification.
2. Due to the selective properties of **Difco** Rose Bengal Agar and the type of specimen being cultured, some strains of fungi may be encountered that fail to grow or grow poorly on the complete medium; similarly, some strains of bacteria may be encountered that are not inhibited or only partially inhibited.
3. Care should be taken not to expose **Difco** Rose Bengal Agar to light, since photodegradation of rose bengal yields compounds that are toxic to fungi.<sup>3,4</sup>

**AVAILABILITY**

Cat. No.	Description
214904	<b>Difco</b> ™ Rose Bengal Antimicrobial Supplement C, 10 x 3 mL
218312	<b>Difco</b> ™ Rose Bengal Agar Base, 500 g

**REFERENCES**

1. Jarvis. 1973. J. Appl. Bacteriol. 36:723.
2. Marshall (ed.). 1993. Standard methods for the examination of dairy products, 16th ed. American Public Health Association, Washington, D.C.
3. 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.
4. Banks, Board and Paton. 1985. Lett. Appl. Microbiol. 1:7.



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 JJJJ-MM-DD / JJJJ-MM (MM = einde maand) /  
 AAAA-KK-PP / AAAA-KK (KK = kuu lõpp) /  
 VVVV-KK-PP / VVVV-KK (kuukauden loppuun mennessä) /  
 AAAA-MM-JJ / AAAA-MM (MM = fin du mois) /  
 JJJJ-MM-TT / JJJJ-MM (MM = Monatsende) /  
 EEEE-MM-HH / EEEE-MM (MM = τέλος του μήνα) /  
 ÉÉÉÉ-HH-NN / ÉÉÉÉ-HH (HH = hónap utolsó napja) /  
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