

## Rose Bengal CAF Agar + Neutralizing

Selective medium for detection of yeasts and moulds with inactivation of disinfectants.

TYPICAL FORMULA	(g/l)
Enzymatic Digest of Soybean Meal	5.0
Glucose	10.0
Monopotassium Phosphate	1.0
Magnesium Sulfate	0.5
Rose Bengal	0.05
Chloramphenicol	0.1
Agar	15.0
Histidine	1.0
Lecithin	0.7
Polysorbate 80	5.0
Sodium Thiosulfate	0.5
Final pH 7.2 ± 0.2	

### DESCRIPTION

Rose Bengal CAF Agar + Neutralizing is a selective medium in RODAC (Replicate Organism Detection and Counting) plates used for environmental and personnel hygiene monitoring with inactivation of disinfectants.

### PRINCIPLE

Enzymatic digest of soybean meal provides amino acids, carbon, nitrogen, vitamins and minerals required for organisms growth. Glucose is a source of energy. Monopotassium phosphate is a buffering agent. Magnesium sulphate provides trace elements. Rose bengal and Chloramphenicol act as selective agents to inhibit bacterial growth while restricting the colony sizes of rapidly growing moulds. Rose Bengal is also a stain and it is incorporated in the cells of yeasts and moulds, turning these colonies pink. Agar is the solidifying agent. Histidine inactivates aldehydes. Lecithin neutralizes quaternary ammonium compounds. Polysorbate 80 (Tween 80) is effective against phenolic compounds and mercurial derivatives. Sodium thiosulfate neutralizes halogen compounds.

### TECHNIQUE

For active air monitoring, insert the plate without the lid in an air sampler and draw a volume of air from 100 to 1000 liters.

For surfaces and personnel hygiene monitoring, such as for sampling of clothing and face masks, firmly press the the agar medium against the test area for about 10 sec

Incubate the plates aerobically at 25-30°C for 2-7 days.

### INTERPRETATION OF RESULTS

Colonies of yeast appear pink. Molds grows as filamentous colonies with various shades of pink on the reverse.

### STORAGE

10-25°C away from light, until the expiry date on the label or until signs of deterioration or contamination are evident.

### WARNING AND PRECAUTIONS

The product does not contain hazardous substances in concentrations exceeding the limits set by current legislation and therefore is not classified as dangerous. It is nevertheless recommended to consult the safety data sheet for its correct use. The product must be used by properly trained operators only.

### DISPOSAL OF WASTE

Disposal of waste must be carried out according to the national and local regulations in force.

### REFERENCES

- Jarvis B. (1973) Comparison of an improved rose-bengal-chlortetracycline agar with other media for the selective isolation and enumeration of moulds and yeasts in food. J. Appl. Bacteriol. 36:723.
- Koburger J.A. (1972) Fungi in foods. Effect of plating medium pH on counts. J. Milk Food Technol. 35:659-660.
- Smith N.R. and V.T. Dawson (1944) The bacteriostatic action of rose bengal in media used for the plate counts of soil fungi. Sol Sci. 58:467-471.



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## PRODUCT SPECIFICATIONS

### NAME

Rose Bengal CAF Agar + Neutralizing

### PRESENTATION

Ready-to-use plates (55 mm) containing  $17 \pm 1$  ml of medium

### STORAGE

10-25°C

### PACKAGING

Ref.	Content	Packaging
15385	20 plates	<ul style="list-style-type: none"> <li>• plates packed one by one in blister packs of two pieces</li> <li>• five blisters wrapped in film thermally welded</li> <li>• vacuum bag and cardboard box</li> </ul>

### pH OF THE MEDIUM

$7.2 \pm 0.2$

### USE

Rose Bengal CAF Agar + Neutralizing is a selective medium in RODAC (Replicate Organism Detection and Counting) plates used for environmental and personnel hygiene monitoring with inactivation of disinfectants

### TECHNIQUE

Refer to technical sheet of the product

### APPEARANCE OF THE MEDIUM

Slightly opalescent, bright pink

### SHELF LIFE










9 months

### QUALITY CONTROL

1. Control of general characteristics, label and print
2. Sterility control  
 48 hours and 7 days at  $22.5 \pm 2.5^\circ\text{C}$ , in aerobiosis  
 48 hours and 7 days at  $32.5 \pm 2.5^\circ\text{C}$ , in aerobiosis
3. Microbiological control  
 Inoculum for productivity: 50-100 CFU  
 Inoculum for selectivity:  $10^4$ - $10^6$  CFU  
 Incubation Conditions: up to 7 days at  $27.5 \pm 2.5^\circ\text{C}$  in aerobiosis

Microorganism		Growth	Colony Colour
<i>Candida albicans</i>	ATCC® 10231	Good	Pink
<i>Saccharomyces cerevisiae</i>	ATCC® 9763	Good	Pink
<i>Aspergillus niger</i>	ATCC® 16404	Good	White mycelium, black spores
<i>Escherichia coli</i>	ATCC® 25922	Inhibited	---
<i>Enterococcus faecalis</i>	ATCC® 29212	Inhibited	---

### TABLE OF SYMBOLS

 Batch code	 Do not reuse	 Manufacturer	 Use by	 Fragile, handle with care
 Catalogue number	 Temperature limitation	 Contains sufficient for <n> tests	 Caution, consult instructions for use	



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