

Rose Bengal Agar Base

Basal medium for the selective isolation and enumeration of yeasts and moulds.

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
Agar	15.0
Final pH 7.2 ± 0.2 at 25°C	

DESCRIPTION

Rose Bengal Agar Base is a basal medium used with selective supplement for the isolation and enumeration of yeasts and moulds.

PRINCIPLE

Enzymatic digest of soybean meal supplies amino acids, nitrogen, carbon, minerals, vitamins and other nutrients required for organism growth. The high concentration of glucose supports the growth of fungi. Monopotassium phosphate is a buffering agent. Magnesium sulfate provides trace elements. Rose Bengal is included as a selective agent to inhibit bacterial growth and to restrict the growth 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.

Chloramphenicol, a broad-spectrum antibiotic, is added to the medium to inhibit a wide range of Gram-negative and Gram-positive bacteria.

PREPARATION

Suspend 31.6 g of powder in 1 liter of distilled water. Heat until completely dissolved. Add 2 vials of Chloramphenicol Supplement (Ref. 81017) reconstituted with 7 ml of a solution containing 50% ethyl alcohol and 50% sterile distilled water (complete medium will contain 0.1 g of chloramphenicol per liter). Autoclave at 121°C for 15 minutes. Cool to 45-50°C. Aseptically, dispense in Petri dishes.

TECHNIQUE

Inoculate diluted or undiluted samples by using spread technique or pouring method. Incubate plates at 25-30°C for 2-7 days.

INTERPRETATION OF RESULTS

Colonies of yeast appear pink. Moulds will grow as filamentous colonies, with various shades of pink. Refer to appropriate references for a complete discussion on yeast and moulds.

STORAGE

The powder is very hygroscopic, store the powder at 10-30°C, 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 plates at 2-8°C away from light.

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 only by properly trained operators.

DISPOSAL OF WASTE

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

REFERENCES

1. Marshall, R.T. ed. (1993). Standard methods for the examination of dairy products, 16th ed. American Public Health Association, Washington, D.C.
2. Koburger, J.A. (1972). Fungi in foods. Effect of pating medium pH on counts. J. Milk Food Technol. 35:659-660.
3. Jarvis, B. (1973). Comparison of an improved rose bengal-chlortetracycline agar with other media for the selective isolation and enumeration of molds and yeasts in foods. J. App. Bacterial. 36:723-727.

Distribué par :

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PRODUCT SPECIFICATIONS

NAME

Rose Bengal Agar Base

PRESENTATION

Dehydrated medium

STORAGE

10-30°C

PACKAGE

Ref.	Content	Packaging
610178	500 g	500 g of powder in plastic bottle
620178	100 g	100 g of powder in plastic bottle
6101785	5000 g	5 kg of powder in plastic container

pH OF THE MEDIUM

7.2 ± 0.2

USE

Rose Bengal Agar Base is a basal medium used with selective supplement for the isolation and enumeration of yeasts and moulds

TECHNIQUE

Refer to technical sheet of the product

APPEARANCE OF THE MEDIUM

Dehydrated medium

Appearance: free-flowing, homogeneous

Colour: beige to faint pink

Prepared medium

Appearance: slightly opalescent

Colour: bright pink

SHELF LIFE










4 years

QUALITY CONTROL

- Control of general characteristics, label and print
- Microbiological control
 Inoculum for productivity: 50-100 CFU
 Inoculum for selectivity: 10⁴-10⁶ CFU
 Incubation conditions: 25-30°C for 2-7 days, in aerobiosis

Microorganism		Growth	Colony color
<i>Aspergillus brasiliensis</i>	ATCC® 16404	Good	White mycelium, black spores
<i>Candida albicans</i>	ATCC® 10231	Good	Pink
<i>Saccharomyces cerevisiae</i>	ATCC® 9763	Good	Pink
<i>Enterococcus faecalis</i>	ATCC® 25923	Inhibited	---
<i>Escherichia coli</i>	ATCC® 25922	Inhibited	---

TABLE OF SYMBOLS

 Batch code	 Keep away from heat sources	 Manufacturer	 Use by	 Fragile, handle with care
 Catalogue number	 Temperature limitation	 Contains sufficient for <n> tests	 Consult instruction for use	

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