

Rose Bengal Agar

For the cultivation and selective isolation of yeasts and moulds

Formula in grams per liter:

Dextrose	10,00	Bacteriological Peptone	5,00
Potassium Phosphate	1,00	Magnesium Sulfate	0,50
Chloramphenicol	0,50	Bengal Rose	0,05
Bacteriological Agar	15,00		

Final pH: 7,2 ± 0,2 at 25 °C

Preparation:

Suspend 32 grams of the medium in one liter of distilled water. Mix well and heat with frequent agitation until boiling. Boil for one minute. Distribute into appropriate containers and sterilize in autoclave at 121°C (15 lbs. sp.) for 15 minutes.

Uses:

This is a selective medium for fungi and yeasts in foods. The Bengal Rose inhibits the massive growth of fastgrowing so that the development of other slow growths can be detected on addition. The yeasts appear rose colored, being stained by this product. On the other hand, the chloramphenicol inhibits the bacterial growth.

The inoculation can be carried out from a diluted source whether by extension of 0.1 ml. of each dilution into the prepared plates, or by the pouring method, depositing 1 ml. of each dilution into the empty plate, pouring the medium immediately afterward (once it has been cooled at 45°C). Incubate for 5 days at 22°C.

Microbiological Tests:

Microorganisms	Growth	Colony appearance
<i>Candida albicans</i> ATCC 10231	Good	Rose, plane, bulky
<i>Aspergillus niger</i> ATCC 1015	Good	White, filamentose, wiel become black
<i>Escherichia coli</i> ATCC 25922	Inhibited	-

