

**ROSE BENGAL AGAR BASE**
**TM 276**

For selective isolation and enumeration of yeasts and molds from environmental materials and foods

**Composition**

Ingredients	Gms/Ltr.
Agar	15.00
Dextrose	10.0
Mycological peptone	5.00
Monopotassium phosphate	1.00
Magnesium sulphate	0.50
Rose bengal	0.05

\* Dehydrated powder, hygroscopic in nature, store, in a dry place in tightly- sealed containers below 25°C and protect from direct Sunlight.

**Instructions for Use**

Dissolve 31.55gms in 1000ml of distilled water. Gently heat to boiling with gentle swirling and dissolve the medium completely. Sterilize by autoclaving at 15 psi (121°C) for 15 minutes. Mix thoroughly and add 2 rehydrated vial contents of Chloramphenicol selective supplement (TS 053). Mix well and pour into sterile petri plates.

**Appearance:** Deep pink color, clear to slightly opalescent gel

**pH (at 25°C):** 7.2 ± 0.2

**Principle**

**ROSE BENGAL AGAR BASE** is used for selective isolation and enumeration of yeasts and molds from environmental materials and foods. The medium contains Mycological peptone acts as source of carbon, nitrogen, minerals, vitamins and other essential growth nutrients. Dextrose is the fermentable carbohydrate source. Monopotassium phosphate provides buffering capability and Magnesium sulphate is a necessary trace element. Medium is substituted by Chloramphenicol because of superior selectivity. This medium has low pH in combination with Chloramphenicol which suppresses the growth of most bacteria. Rose bengal dye suppresses the development of bacteria and restricts the size and the spreading of mold colonies such as *Rhizopus* species. Rose bengal is taken up by the growing colonies making them easier to see and inhibiting their spreading. Agar is a solidifying agent.

**Interpretation**

Cultural characteristics observed after inoculating (10<sup>3</sup>CFU/ml), on incubation at 20 - 25°C for 5 days for fungi, yeast & mold. Incubation at 35 ± 2° C up to 18 - 24 hours for bacterial colonies.

Microorganisms	ATCC	Inoculum (CFU/ml)	Growth
<i>Aspergillus niger</i>	16404	10 <sup>3</sup>	Good
<i>Saccharomyces cerevisiae</i>	9763	10 <sup>3</sup>	Good
<i>Cladosporium cladosporides</i>	45534	10 <sup>3</sup>	Good
<i>Penicillium notatum</i>	10108	10 <sup>3</sup>	Good
<i>Mucor racemosus</i>	42647	10 <sup>3</sup>	Fair - good
<i>Enterococcus faecalis</i>	29212	10 <sup>3</sup>	Inhibited

## PRODUCT DATA SHEET

<i>Escherichia coli</i>	25922	10 <sup>3</sup>	Inhibited
<i>Bacillus subtilis</i>	6633	10 <sup>3</sup>	Inhibited

### References

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