

Rose Bengal Agar

Catalog : HB0237-6

Rose Bengal Agar is used for isolating and enumerating yeasts and molds.

Approximate Formula:

Ingredients	gm/liter
Peptic digest of animal tissue	5.0
Dextrose	10.0
Monopotassium Phosphate	1.0
Magnesium Sulfate	0.5
Agar	20.0
Rose Bengal	0.033
Chloramphenicol	0.1
Final pH 7.2±0.2 at 25°C	

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

Directions:

Suspend 36.6g of the medium in one liter of distilled water or deionized water. Mix well and heat with frequent agitation. Dispense into triangle flasks. Sterilize in an autoclave at 121°C (15 lbs.) for 15 minutes.

Principle and Interpretation:

Peptic digest of animal tissue provides the carbon and nitrogen sources required for good growth of a wide variety of organisms. Dextrose is an energy source. Monopotassium phosphate provides buffering capability. Magnesium sulfate provides necessary trace elements. Rose bengal is included as a selective agent that inhibits bacterial growth and restricts the size and height of colonies of the more rapidly growing molds. Chloramphenicol inhibits bacteria. Agar is the solidifying agent.

Appearance:

Dehydrated medium is a free-flowing yellowish-light red powder. The prepared medium is a kind of red transparent gel.

Precautions:

This medium is for laboratory use only. Dried medium which is past shelf life, caking or color variation cannot be used.

Storage conditions and Shelf life:

Rose Bengal Agar must be stored tightly capped in the original container at 5-30°C. The dehydrated medium has a shelf life of 5 years from date of manufacturing. Prepared medium may be stored, out of direct light at 2-8°C.

Quality control:

Prepare the culture medium as per label directions. Inoculate and incubate at 28±1°C for 120 hours.

Microorganism	Strains Number	Inoculum(C FU)	Growth	Recovery	Remarks
<i>Aspergillus Niger</i>	ATCC 16404	20-200	luxuriant	≥70%	Black spores, white hypha
<i>Candida Albicans</i>	ATCC 10231	20-200	luxuriant	≥70%	Pink colonies
<i>Saccharomyces cerevisiae</i>	ATCC 9763	20-200	luxuriant	≥70%	Pink colonies
<i>Escherichia coli</i>	ATCC 8739	>10 ³	inhibited	/	/
<i>Staphylococcus aureus</i>	ATCC 6538	>10 ³	inhibited	/	/

References:

- GB4789.28-2013 People's Republic of China food safety national standard food microbiology test medium and reagent quality requirements.
- Waksman. 1922. J. Bacteriol. 7:339.
- Koburger. 1976. In Speck (ed.), Compendium of methods for the microbiological examination of foods. American Public Health Association, Washington, D.C.
- Mossel, Visser and Mengerink. 1962. Lab Practice 11:109.