

Dichloran Rose Bengal Chloram Phenicol Agar(DRBC)

Catalog : HB0290-1

Dichloran Rose Bengal Chloram Phenicol Agar(DRBC) is used for the isolation and cultivation of mold and yeast in food.

Approximate Formula:

Ingredients	gm/liter
Proteose Peptone No. 3	5.0
Glucose	10.0
Potassium dihydrogen phosphate	1.0
Dichloran	0.002
Magnesium Sulfate	0.5
Rose Bengal	0.025
Chloramphenicol	0.1
Agar	15.0
Final pH5.6±0.2 at 25℃	

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

Directions:

Suspend 31.6g of the medium in one liter of deionized or distilled water. Heat to dissolved. Sterilize in an autoclave at 121℃ (15 lbs.) for 15 minutes. Cool to about 50℃, pour into sterile petri dishes.

Principle and Interpretation:

Proteose Peptone No. 3 provides nitrogen source, vitamins, growth factors; Glucose provides the carbon source; Potassium dihydrogen phosphate is buffering agent; Rose Bengal is an indicator; Agar is the solidifying agent of the medium.

Appearance:

Dehydrated medium is a free-flowing light pink powder. The prepared medium is a kind of rose 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:

Dichloran Rose Bengal Chloram Phenicol Agar(DRBC) must be stored tightly capped in the original container at 5-30℃. 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℃.

Quality control:

Prepare the culture medium as per label directions. Inoculate and incubate at 20-25℃ for 48-72 hours.

Microorganism	Strains Number	Inoculum(CFU)	Growth	Recovery	Remarks
<i>Aspergillus Niger</i>	ATCC 16404	20-200	Luxuriant	≥70%	White hypha
<i>Candida Albicans</i>	ATCC 10231	20-200	Luxuriant	≥70%	Red colonies
<i>Saccharomycetes</i>	ATCC 18790	20-200	Luxuriant	≥70%	Red colonies
<i>Escherichia coli</i>	ATCC 25922	20-200	Inhibited	/	/

References:

- King, Hocking and Pitt. 1979. Appl. Environ. Microbiol. 37:959.
- Beuchat and Cousin. 2001. In Downes and Ito (ed.). Compendium of methods for the microbiological examination of foods, 4th ed. American Public Health Association. Washington, D.C.
- U.S. Food and Drug Administration. 2001. Bacteriological analytical manual, online. AOAC International, Gaithersburg, Md.
- Banks, Board and Paton. 1985. Lett. Appl. Microbiol. 1:7.