



Dichloran-Rose Bengal Chloramphenicol Agar, DRBC | AS-1212

For isolation and counting of yeasts and molds in food.

Dichloran Rose Bengal Chloramphenicol (DRBC) Agar is a selective culture medium designed to isolate and count yeasts and molds, especially in food samples. It is a variation of Rose Bengal Chloramphenicol Agar, adding dichloran to further inhibit fungal growth. The medium comprises peptone as a nitrogen source, dextrose as a carbon source, phosphate buffer, magnesium sulfate, and the selective agents dichloran and chloramphenicol and Rose Bengal. The acidic pH (5.6) favors yeast and mold growth while inhibiting many bacteria. The medium's composition encourages distinct colony morphology, making counting easier.

Composition (gr/L)

Peptone	5
Glucose	10
Potassium Dihydrogen Phosphate	1
Dichloran	0.002
Magnesium Sulfate	0.5
Rose Bengal	0.025
Chloramphenicol	0.1
Agar	15
Final pH at 25°C	5.6 ± 0.2

Preparation

Dissolve 31.6 g of the powder into 1 liter distilled water. Mix well. Autoclave at 121 °C for 15 minutes.

Quality Control

Dehydrated Appearance: Pink, free-flowing, homogeneous.

Prepared Appearance: Light to medium amber, clear to slightly opalescent.

Reaction of 3.16% Solution at 25°C: pH 5.6 ± 0.2

Microbial Test Results

Incubate at 25±2 °C for up to 5 days. Spot inoculate for *A. niger*.

Organism (ATCC)	Recovery
<i>Saccharomyces cerevisiae</i> (9763)	Good
<i>Aspergillus niger</i> (1015)	Good
<i>Candida albicans</i> (10231)	Good
<i>Escherichia coli</i> (25922)	None
<i>Bacillus subtilis</i> (6633)	None

Storage

Keep the container at 15-30 °C and prepared medium at 2-8 °C.