



## Product Data Sheet

**DICHLORAN ROSE BENGAL CHLORAMPHENICOL AGAR (DRBC AGAR) (ISO 21527-1:2008, 11133:2014)**

**Product No.** GB-DCM-00173-1A

### **INTENDED USE**

For selective isolation of yeasts and molds of significance in food spoilage.

### **PRODUCT SUMMARY**

DRBC Agar is a selective medium that supports good growth of yeasts and molds. This medium is formulated as described by King et. al and is recommended for selective isolation of fungi especially from food samples. DRBC Agar is a modification of Rose Bengal Chloramphenicol Agar which contains Dichloran as an additional component. The composition and performance criteria of this medium are as per the specifications laid down in ISO 21527-1:2008.

### **Product Specifications**

<b>Ingredients</b>	<b>Gms / Ltr</b>
Agar	15.000
Dextrose	10.000
Peptic digest of animal tissue	5.000
Mono potassium phosphate	1.000
Magnesium sulphate	0.500
Chloramphenicol	0.100
Rose bengal	0.025
Dichloran	0.002

### **PRINCIPLE**

DRBC Agar is a selective medium that supports good growth of yeasts and molds. This medium is formulated as described by King et. al and is recommended for selective isolation of fungi especially from food samples. DRBC Agar is a modification of Rose Bengal Chloramphenicol Agar which contains Dichloran as an additional component. The composition and performance criteria of this medium are as per the specifications laid down in ISO 21527-1:2008.

### INSTRUCTION FOR USE

- Dissolve 31.62 grams in 1000ml distilled water.
- Gently heat to boiling with swirling to dissolve the medium completely.
- Sterilize by autoclaving at 15 psi (121oC) for 15 minutes.
- Cool to 45-50oC.
- Mix well and pour into sterile Petri plates.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Recovery	Incubation Temperature	Incubation Period
Aspergillus brasiliensis	16404	Point inoculation	Good-Luxuriant	>=50%	25-30°C	6 Days
Candida albicans	10231	50-100	Good-Luxuriant	>=50%	25-30°C	6 Days
Saccharomyces cerevisiae	9763	50-100	Good-Luxuriant	>=50%	25-30°C	6 Days
Escherichia coli	25922	≥1000	Inhibited	0%	25-30°C	6 Days
Escherichia coli	8739	≥1000	Inhibited	0%	25-30°C	6 Days
Bacillus subtilis	6633	≥1000	Inhibited	0%	25-30°C	6 Days

### QUALITY CONTROL SPECIFICATIONS

Appearance of Powder: Light yellow coloured, homogeneous, free flowing powder.

Appearance of prepared medium: Pink coloured, clear to slightly opalescent gel.

pH (at 25°C) : 5.6±0.2



## **STORAGE**

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 25-30°C and protect from direct sunlight. Under optimal conditions, the medium has a shelf life of 4 years. When the container is opened for the first time, note the time and date on the label space provided on the container. After the desired amount of medium has been taken out replace the cap tightly to protect from hydration.

**Product Deterioration:** Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

## **DISPOSAL**

After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

**This product is for research use only.**