Dichloran-Rose Bengal Chloramphenicol Agar (DRBC)

Product No.	Product Category	Specification
HCM215	Dehydrated Culture Medium	500g/bottle

Intended Use

For the isolation and culture of yeast and mold.

Principle and Interpretation

Enzymatic hydrolysis of animal and plant tissues provides nitrogen source, vitamins, growth factors. Glucose provides carbon source. Potassium dihydrogen phosphate as a buffer. Rose Bengal as a selective bacteriostatic agent, inhibit the growth of bacteria. Chloramine can slow down the spread of mold growth. Agar is a coagulant.

Formula

Dichloran Rose Bengal Chloramphenicol Agar (DRBC)

Ingredients	/liter
Enzymatic digest of animal and plant tissues	5.0g
Glucose	10.0g
Potassium dihydrogen phosphate	1.0g
Magnesium sulphate	0.5g
Dichloran	0.002g
Rose bengal	0.025g
Chloramphenicol	0.1g
Agar	15.0g
Final pH 5.6±0.2 at 25°C	

Preparation

Suspend 31.6g in 1 L distilled or deionized water. Heat with frequent agitation and boil to completely dissolve the powder. Autoclave at 121°C for 15 minutes.

Quality Control

Cultural characteristics after 3-5 days at 24-26°C.

Quality control strains	Growth
Saccharomyces cerevisiae ATCC 9763	Good
Aspergillus brasiliensis ATCC 16404	

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Escherichia coli ATCC 25922	Inhibited
Bacillus subtilis ATCC 6633	

Storage and Shelf Life

Keep container tightly closed, store in a cool, dry place, away from bright light.
Use before expiry date on the label.

Precautions

1. When weighing the dehydrated medium, please wear masks to avoid causing respiratory system discomfort
2. Keep container tightly closed after using to prevent clumping.

Waste Disposal

Microbiological contamination was disposed by autoclaving at 121°C for 30 minutes.

Revision

Apr 1, 2025

References

ISO 21527-1:2008: Microbiology of food and animal feeding stuffs – Horizontal method for the enumeration of yeasts and moulds – Part 1: Colony count technique in products with water activity greater than 0,95.

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