Technical Data Sheet

Rose Bengal Chloramphenicol (RBC) Agar

Ordering number: 1.00467.0500

RBC (Rose Bengal Chloramphenicol) Agar is a selective agar for the enumeration of yeasts and moulds in foodstuffs, particularly proteinaceous food.

Mode of Action

The neutral pH in combination with chloramphenicol suppresses the growth of most bacteria. Rose bengal is taken up intracellularly by fungi. It restricts the size and the spreading of moulds, preventing overgrowth of slow growing species by luxuriant species.

Typical Composition (g/L)

RBC (Rose Bengal Chloramphenicol) agar	
Mycological peptone	5.0
Glucose	2.0
Potassium dihydrogen phosphate	1.0
Magnesium sulfate	0.5
Rose Bengal	0.05
Chloramphenicol	0.1
Agar-agar*	15.5

* Agar-Agar is equivalent to other different terms of agar.

Preparation

Suspend 32,2 g in 1 l of demineralized water and heat to boiling until completely dissolved. Autoclave the medium at 121 °C for 15 min. Cool to approx. 50 °C. Mix well and pour plates.

The appearance of the prepared medium is pink to red.

The pH value at 25 °C is 7.2 ± 0.2.

Experimental Procedure and Evaluation

Directly inoculate agar plates using surface spreading technique with serial dilutions.

Incubate at 22°C for 5 days in the dark.

Count the number of yeasts and moulds colonies per 1 gram of food.

If a higher inhibition of bacteria and yeasts is needed, it is recommended to use Dichloran Rose Chloramphenicol (DRBC) Agar (Catalogue No. 100466.)

Storage

Important note: The shelf life of this dehydrated culture medium in an unopened box has been recently changed to 2 years.

Store at 15°C - 25°C, dry and tightly closed. Do not use clumped or discolored medium. Protect from UV light (including sun light).

When stored the prepared medium at 2 to 8°C in the dark, the shelf life of plates is approximately 1 week and in bottles approx. 2 months.

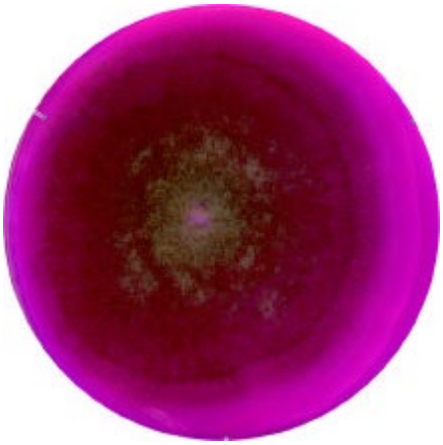
For *in vitro* use only.

Quality Control

Control strains	Incubation	Inoculum in colony forming units	Reference medium	Method of control	Expected results
Saccharomyces cerevisiae ATCC® 9763	5 days at 22°C	10-100	Sabouraud 4% Dextrose Agar	Quantitative	Recovery ≥ 50 %
Rhodotorula mucilaginosa DSM		10-100		Quantitative	Recovery ≥ 50 % orange to red colonies
Mucor racemosus ATCC® 42647		Qualitative		Qualitative	Fair to good growth
Enterococcus faecalis ATCC® 29212		Qualitative		Qualitative	No growth
Escherichia coli ATCC® 25922		Qualitative		Qualitative	No growth

Please refer to the actual batch related Certificate of Analysis.

A recovery rate of 50 % is equivalent to a productivity value of 0.5.



Mucor racemosus ATCC® 42647

Literature

Jarvis, B. (1973): Comparison of an improved rose-bengal-chlortetracycline agar with other media for the selective isolation and enumeration of moulds and yeasts in food. J. Appl. Bacteriol. **36**: 723-727.

Ordering Information

Product	Cat. No.	Pack size
Rose-Bengal Chloramphenicol (RBC) Agar	1.00467.0500	500 g
Granucult® DRBC (Dichloran-rose bengal chloramphenicol) agar	1.00466.0500	500 g

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