DICHLORAN ROSE BENGAL CAF AGAR

Selective medium for yeast and moulds detection in food, according to the ISO 21527.

TYPICAL FORMULA	(g/l)
Peptone	5.0
Dextrose	10.0
Potassium Monophosphate	1.0
Magnesium Sulphate	0.5
Dichloran (2,6-dichloro-4-nitroaniline)	0.002
Rose Bengal	0.025
Agar	15.0
Chloramphenicol	0.1
Final pH 5.6 ± 0.2	

DESCRIPTION

DICHLORAN ROSE BENGAL CAF AGAR is a selective medium for yeasts and moulds detection in food, according to the ISO 21527.

PRINCIPLE

Peptone is a source of nitrogen, amino acids, vitamins and minerals. Dextrose is the fermentable carbohydrate supplying carbon and energy. Potassium monophosphate is the buffer while magnesium sulfate gives sulfur and others trace elements. Rose bengal, dichloran and chloramphenicol are selective agents that inhibit bacterial growth and limit in size fast growing moulds allowing the development, detection and enumeration of yeasts and moulds also with slow growth. Agar is the solidifying agent.

PREPARATION

Heat in a boiling water bath occasionally shaking until melted. Cool to 50°C and pour into Petri dishes.

TECHNIQUE

Make several dilutions of the test sample and inoculate 0.1 ml of each dilution on the plate. Incubate at 25±1°C for 3, 4 and 7 days.

INTERPRETATION OF RESULTS

Observe the presence of pink colonies, select the plates containing less than 150 colonies and express counts as the number of colonies per gram feed.

STORAGE AND TRANSPORT CONDITIONS

2-8°C away from light, until the expiry date on the label. However, our stability studies have shown that the transport at 18-25°C for 4 days, or at 35-39°C for 48 hours, does not alter in any way the performance of the product. Eliminate if signs of deterioration or contamination are evident.

WARNING AND PRECAUTIONS

The product does not contain hazardous substances in concentrations exceeding the limits set by current legislation and therefore is not classified as dangerous. It is nevertheless recommended to consult the safety data sheet for its correct use. The product is designed for professional use only and must be used by properly trained operators.

DISPOSAL OF WASTE

Disposal of waste must be carried out according to the national and local regulations in force.

REFERENCES

1. King AD Jr, Hocking AD and Pitt JI. Dichloran-rose bengal medium for enumeration and isolation of molds from foods. Appl Environ Microbiol. 1979; 37:959-64.
2. ISO 21527 Microbiology of food and animal feeding stuffs. Horizontal method for the enumeration of yeast and moulds - Part 1 Colony count technique in products with water activity greater than 0.95.

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PRODUCT SPECIFICATIONS

NAME
DICHLORAN ROSE BENGAL CAF AGAR

PRESENTATION
Glass bottles containing 200 ml of medium

STORAGE
2-8°C

PACKAGING

Ref.	Content	Packaging
412410	6 bottles x 200 ml	6 bottles in cardboard box

pH OF THE MEDIUM
5.6 ± 0.2

USE
DICHLORAN ROSE BENGAL CAF AGAR is a selective medium for yeasts and moulds detection in food, according to the ISO 21527

TECHNIQUE
Refer to technical sheet of the product

APPEARANCE OF THE MEDIUM
Pink medium

SHELFLIFE
2 years

QUALITY CONTROL
1. Control of general characteristics, label and print
2. Sterility control
   7 days at 22 ± 1°C, in aerobiosis
   7 day at 36 ± 1°C, in aerobiosis
3. Microbiological control
   Inoculum for productivity: 10-100 UFC/ml
   Inoculum for selectivity: 10^4-10^5 UFC/ml
   Inoculum for specificity: ≤10^4 UFC/ml
   Incubation Conditions: 40-48 h at 36 ± 1°C

Microorganism		Growth
Aspergillus niger	ATCC® 16404	Good
Saccharomyces cerevisiae	ATCC® 9763	Good
Candia albicans	ATCC® 10231	Good
Trichophyton mentagrophytes	ATCC® 9533	Good
Escherichia coli	ATCC® 8739	Inhibited

TABLE OF SYMBOLS

LOT Batch code	Do not reuse	Manufacturer	Use by	Fragile, handle with care
REF Catalogue number	Temperature limitation	Contains sufficient for <n> tests	Caution, consult instructions for use	

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