TM 277 – ROSE BENGAL CHLORAMPHENICOL AGAR

INTENDED USE
For selective isolation and enumeration of yeasts and molds from environmental materials and foods.

PRODUCT SUMMARY AND EXPLANATION
Rose Bengal Chloramphenicol Agar was formulated originally by Jarvis and further modified by Overcast and Weakley. The use of Rose Bengal in the media having neutral pH was reported by Smith and Dawson. The medium has neutral pH, which with the antibiotics has noted to be advantageous. Rose bengal is taken up by moulds and yeast colonies thereby assist in enumeration.

COMPOSITION

Ingredients	Gms / Ltr
Mycological peptone	5.000
Dextrose (Glucose)	10.000
Potassium dihydrogen phosphate	1.000
Magnesium sulphate	0.500
Rose bengal	0.050
Chloramphenicol	0.100
Agar	15.500

PRINCIPLE
The medium consists of Mycological peptone which provides carbon, nitrogen substances, long chain amino acids, vitamins and other essential growth nutrients. Dextrose (Glucose) is the fermentable carbohydrate. Chloramphenicol has inhibitory action on gram-negative bacteria. Rose bengal dye suppresses the development of bacteria and reduces the spreading of moulds, controls the size and height of moulds colonies such as *Rhizopus* species.

INSTRUCTION FOR USE
- Dissolve 32.15 grams in 1000 ml distilled water.
- Heat to boiling to dissolve the medium completely.
- Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.
- Cool to 40-45°C. Mix well and pour into sterile Petri plates.

QUALITY CONTROL SPECIFICATIONS
Appearance of Powder : Light yellow to pink homogeneous free flowing powder.
Appearance of prepared medium : Deep pink coloured clear to slightly opalescent gel forms in Petri plates.
pH (at 25°C) : 7.2 ± 0.2

INTERPRETATION
Cultural characteristics observed after incubation with added Chlortetracycline Selective Supplement.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Recovery	Incubation Temperature	Incubation Period
Aspergillus niger	16404	10-100	Good-luxuriant	>=50%	25-30°C	5 Days
Bacillus subtilis subsp. spizizenii	6633	>=10^3	Inhibited	0%	25-30°C	5 Days
Cladosporium cladosporioides	11278	10-100	Good-luxuriant	>=50%	25-30°C	5 Days
Escherichia coli	25922	>=10^3	Inhibited	0%	25-30°C	5 Days
Enterococcus faecalis	29212	>=10^3	Inhibited	0%	25-30°C	5 Days
Mucor racemosus	42647	10-100	Good-luxuriant	>=50%	25-30°C	5 Days
Pencillium notatum	10108	10-100	Good-luxuriant	>=50%	25-30°C	5 Days
Saccharomyces cerevisiae	9763	10-100	Good-luxuriant	>=50%	25-30°C	5 Days

PACKAGING:
In pack size of 100 gm and 500 gm bottles.

STORAGE
Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 2-8°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.

REFERENCES

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6. Salfinger Y., and Tortorello M.L. Fifth (Ed.), 2015, Compendium of Methods for the Microbiological Examination of Foods, 5th Ed., American Public Health Association, Washington, D.C. 8.Banks J. G.
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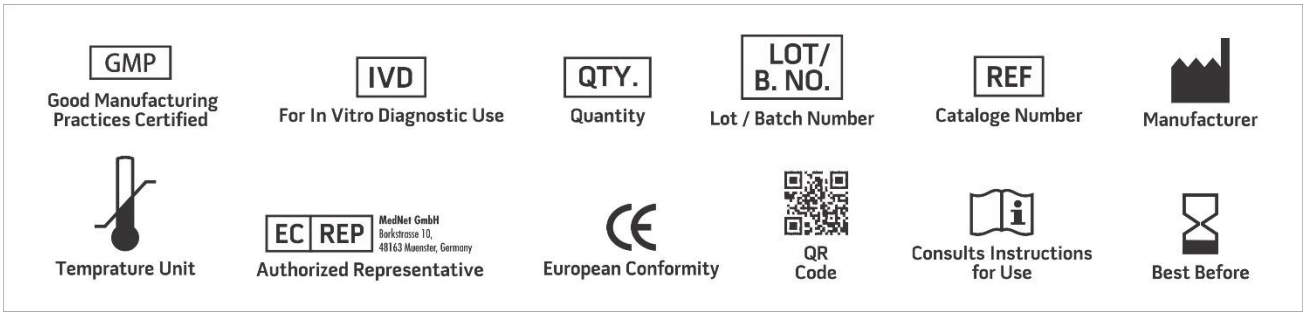

NOTE: Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.

***For Lab Use Only**

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