

CM 20761 - GLUCOSE AGAR, MODIFIED

INTENDED USE

Maintenance medium for stock cultures of a variety of microorganisms.

PRODUCT SUMMARY AND EXPLANATION

Glucose Agar, Modified is a simple medium supporting growth of wide variety of organisms. It can be used for maintenance of stock cultures of microorganisms. It has been demonstrated as a universal medium used for germination of spores of fungus - *Colletotrichum lindemuthianum*. It has also been used to study growth profile of *Histoplasma capsulatum* and *Candida albicans* along with Sabouraud dextrose agar to study effect of pH and concentration of glucose.

COMPOSITION

Ingredients	Gms / Ltr
Peptone special	5.000
Glucose	10.000
Agar	20.000

PRINCIPLE

It has glucose as immediate source of carbon. Special peptone provides necessary nitrogenous sources for growth of organisms. Agar acts as a solidifying agent.

INSTRUCTION FOR USE

- Dissolve 35.00 grams in 1000 ml distilled water.
- Heat to boiling to dissolve the medium completely.
- Distribute into tubes or flasks
- Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.
- Pour into sterile Petri plates or distribute into tubes as desired.

QUALITY CONTROL SPECIFICATIONS

- Appearance of Powder : Cream to yellow homogeneous free flowing powder.
- Appearance of prepared medium : Light amber coloured, clear to slightly opalescent gel forms in Petri plates.
- pH (at 25°C) : 6.5±0.2

INTERPRETATION

Cultural characteristics observed after an incubation.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Recovery	Incubation Temperature	Incubation Period
Enterobacter aerogenes	13048	50-100	Good-luxuriant	≥50%	35-37°C	18-24 Hours



Escherichia coli	25922	50-100	Good-luxuriant	>=50%	35-37°C	18-24 Hours
Pseudomonas aeruginosa	27853	50-100	Good-luxuriant	>=50%	35-37°C	18-24 Hours
Candida albicans	10231	10-100	Luxuriant	>=70%	35-37°C	18-24 Hours
Histoplasma capsulatum	10230	10-100	Luxuriant	>=70%	35-37°C	18-24 Hours

PACKAGING:

Inpacksizeof500 gm bottles.

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.

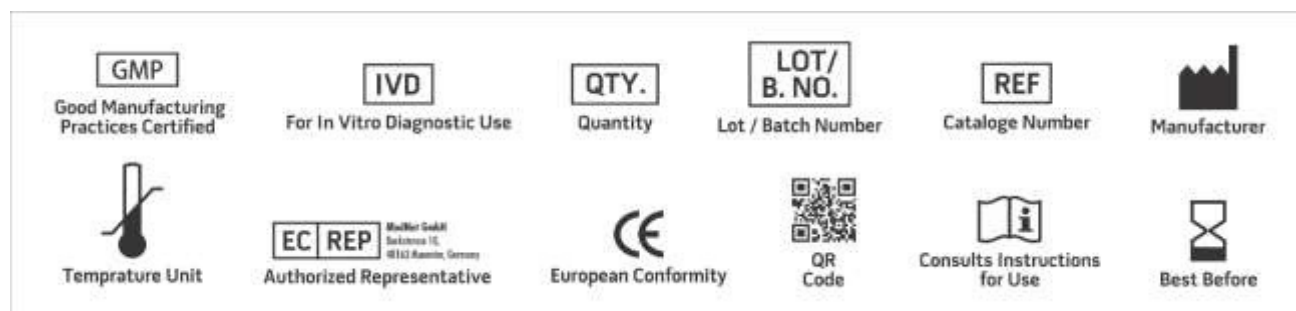
Product Deterioration: Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

DISPOSAL

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

REFERENCES

1. Atlas,R.M.1997. Handbook of microbiological media, 2nd edition, CRC Press Inc. USA.
2. E. Drijfhout and J. Jansen 1989. European Journal of Plant Pathology. Vol.95, No 2. p.119
3. Mathur, R.S., Barnett, H.L. & Lilly, V.G., 1950. Phytopathology Vol. 40: 104.
4. Bartlett, G.W. etal., 1968, Journal of Bacteriology Vol 95. No.6 p. 2171



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

*For LabUse Only

