

Bases / Media Supplements

Technical Information

Glucose Agar, Modified

Product Code: DM 2679

Application: - Glucose Agar, Modified is the medium recommended for the maintenance of stock cultures of a variety of microorganisms.

Composition**					
Ingredients	Gms / Litre				
Peptone special	5.000				
Glucose	10.000				
Agar	20.000				
Final pH (at 25°C)	6.5±0.2				

**Formula adjusted, standardized to suit performance parameters

Principle & Interpretation

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 (1). This medium has been demonstrated as a universal medium used for germination of spores of fungus - *Colletotrichum lindemuthianum* (2). 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 (3).

Glucose in the medium supply immediate source of carbon. Special peptone provides necessary nitrogenous sources for growth of

organisms. Agar acts as a solidifying agent.

Methodology

Suspend 35.0 grams of dehydrated media powder in 1000 ml distilled water. Mix thoroughly & heat to boiling to dissolve the medium completely. Distribute into tubes or flasks. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Pour into sterile Petri plates or distribute into tubes as desired.

Quality Control							
Appearance							
Cream to yellow coloured homogeneous free flowing powder							
Gelling							
Firm, comparable with 2.0% Agar gel							
Colour and Clarity							
Light amber coloured, clear to slightly opalescent gel forms in Petri plates / tubes							
Reaction							
Reaction of 3.5% w/v aqueous solution at 25°C. pH : 6.5±0.2							
pH Range							
6.30-6.70							
Cultural Response							
DM2679: Cultural characteristics observed after an incubation at 35-37°C for 18-24 hours							
Organism	Inoculum	Growth	Recovery				
	(CFU)						
Cultural Response							
Escherichia coli ATCC 25922	50-100	good-luxuriant	>=70%				





Dehydrated Culture Media Bases / Media Supplements

Enterobacter aerogenes ATCC 13048	50-100	good-luxuriant	>=70%
Pseudomonas aeruginosa ATCC 25923	50-100	good-luxuriant	>=70%
Candida albicans ATCC10231	50-100	luxuriant	>=70 %
Histoplasma capsulatum ATCC 10230	50-100	luxuriant	>=70 %

Storage and Shelf Life

Dried Media: Store below 30°C in tightly closed container and the prepared medium at 2 - 8°C. Use before expiry date on the label. **Prepared Media**: 2-8° in sealable plastic bags for 2-5 days.

Further Reading

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.

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