

Technical Data

Glucose Peptone Agar

Glucose Peptone Agar is highly nutritious medium that can support the growth of fastidious microorganisms.

Composition**	
Ingredients	Gms / Litre
Peptic digest of animal tissue	20.000
Dextrose	10.000
Sodium chloride	5.000
Agar	15.000
Final pH (at 25°C)	7.2±0.2
**Formula adjusted, standardized to suit perform	mance parameters

Directions

Suspend 50 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Mix well & pour in sterile Petri plates.

Principle And Interpretation

Glucose peptone Agar is recommended for general cultivation of wide variety of microorganisms. As it is rich in nutrients can also serve as excellent basal medium for glucose blood agar. With addition of suitable indicator, this medium can be used for the detection and cultivation of thermophilic organisms, associated with flat sour spoilage in Canned goods.

Agrobacterium species can also grow abundantly on media containing dextrose as carbohydrate source. Glucose peptone Agar with addition of Bromocresol purple (1% alcoholic solution) is suitable for cultivation of root nodulating bacteria (2). Peptic digest of animal tissue provides nitrogenous nutrients especially amino acids, and peptides. The presence of sodium chloride helps to maintain the osmotic balance. Dextrose serves as fermentable carbohydrate source and carbon source.

Quality Control

Appearance

Yellow coloured homogeneous free flowing powder

Gelling

Firm, comparable with 1.5% Agar gel

Colour and Clarity of prepared medium

Light yellow coloured clear to slightly opalescent gel forms in Petri plates.

Reaction

Reaction of 5.0% w/v aqueous solution at 25°C. pH : 7.2±0.2

pН

7.00-7.40

Cultural Response

M758: Cultural characteristics observed after an incubation at 35-37°C for 18-24 hours .

Organism	Inoculum (CFU)	Growth	Recovery
Agrobacterium tumefaciens	50-100	Good -	>=70%
ATCC 23308		luxuriant	
Escherichia coli	50-100	Good -	>=70%
ATCC25922		luxuriant	
Pseudomonas aeruginosa	50-100	Good -	>=70%
ATCC 27853		luxuriant	
Staphylococcus. aureus	50-100	Good -	>=70%
ATCC25923		luxuriant	
Enterococcus faecalis ATCC	2 50-100	Good -	>=70%
29212		luxuriant	

Please refer disclaimer Overleaf.

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Storage and Shelf Life

Store below 30°C in tightly closed container and the prepared medium between 2-8°C. Use before expiry date on the label.

Reference

1. Atlas, R.M. (3rd Ed.), 2004, Handbook of Microbiological Media, CRC Press LLC.

2. Subba Rao N.S. 1977, Soil microorganisms and Plant Growth. Oxford SIBH Publishing Co.

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