

Technical Information

Glucose MiVeg Broth

Product Code :VM1860

Application:- Glucose MiVeg Broth is used for study of glucose (dextrose) fermentation where a pH indicator is not desired.

Composition

Ingredients	Gms / Litre
MiVeg hydrolysate	10.00
Glucose	5.00
Sodium chloride	5.00
Final pH (at 25°C)	7.3 ± 0.2

** Formula adjusted, standardized to suit performance parameters.

Principle & Interpretation

Glucose MiVeg Broth is prepared by adding MiVeg hydrolysate in place of animal based, Casein enzymic hydrolysate thus making the medium free from BSE/TSE risks. This medium is the modification of Glucose Broth used by Waisbren, Carr and Dunnett for testing the sensitivity of microorganisms to antibiotics by the tube dilution method (1). It can also be used for the study of glucose fermentation when a medium without pH indicator is desired. Glucose fermentation studies can be performed more accurately using only pure 0.5% glucose as the source of carbohydrate.

This medium contains glucose as the only fermentable carbohydrate and MiVeg hydrolysate which is free of carbohydrate. It provides nitrogenous source and essential nutrients for the growth of the organisms. Sodium chloride helps to maintain the osmotic equilibrium.

Glucose MiVeg Broth therefore supports the growth of many fastidious as well as nonfastidious organisms. It gives rapid growth and hastens the early development of injured cells.

Methodology

Suspend 20 grams of powder media in 1000 ml distilled water. Mix thoroughly. Heat if necessary to dissolve the medium completely. Dispense in test tubes containing inverted Durham's tubes. Sterilize by autoclaving at 12 lbs pressure (118°C) for 15 minutes.

Quality Control

Physical Appearance

Light yellow coloured, may have slightly greenish tinge, homogeneous, free flowing powder.

Colour and Clarity of prepared medium

Light yellow coloured, clear solution without any precipitate.

Reaction

Reaction of 2.0% w/v aqueous solution is pH 7.3 ± 0.2 at 25°C.

pH Range

7.1-7.5

Cultural Response/Characteristics

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

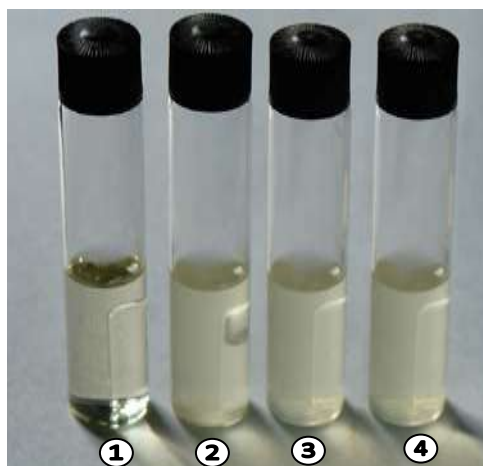
Organisms (ATCC)	Inoculum (CFU)	Growth	Gas
<i>Escherichia coli</i> (25922)	10 ² -10 ³	luxuriant	+
<i>Salmonella</i> serotype Typhi (6539)	10 ² -10 ³	luxuriant	—

<i>Shigella flexneri</i> (12022)	10 ² -10 ³	luxuriant	-
<i>Staphylococcus aureus</i> (25923)	10 ² -10 ³	luxuriant	-
<i>Staphylococcus epidermidis</i> (12228)	10 ² -10 ³	luxuriant	-
<i>Streptococcus pyogenes</i> (19615)	10 ² -10 ³	luxuriant	-

Storage and Shelf Life

Dried Media: Store below 30°C in tightly closed container and use before expiry date as mentioned on the label.

Prepared Media: 2-8° in sealable plastic bags for 2-5 day.



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1. Control
2. *Escherichia coli*
3. *Salmonella* serotype Typhi
4. *Staphylococcus aureus*

Further Reading

1. Waisbren, Carr and Dunnett, 1951, Am. J. Clin. Path., 21:884.

Disclaimer :

- User must ensure suitability of the product(s) in their application prior to use.
- The product conform solely to the technical information provided in this booklet and to the best of knowledge research and development work carried at CDH is true and accurate.
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