

Technical Information

Dextrose MiVeg Broth

Product Code : VM1044

Application:- Dextrose MiVeg Broth is recommended for cultivation of wide variety of microorganisms.

Composition

Ingredients	Gms / Litre
MiVeg hydrolysate No. 1	10.00
MiVeg extract	3.00
Dextrose	5.00
Sodium chloride	5.00
Final pH (at 25°C)	7.2±0.2

** Formula adjusted, standardized to suit performance parameters.

Principle & Interpretation

Dextrose MiVeg Broth is prepared using vegetable peptones in place of animal based peptones which makes the media BSE/TSE risk free. This medium is the modification of Dextrose Media which is used for the cultivation of wide variety of microorganisms and specially used for making Dextrose Blood Agar (1).

This medium is like the conventional medium used for antibiotic sensitivity testing using tube dilution method (2). This broth was found to be superior compared to Soyabean MiVeg Medium, particularly for sensitivity testing of Neomycin and Chlortetracycline.

Dextrose serve as energy source. However this medium is not very suitable for the study of haemolysis because of high sugar content. This medium contains MiVeg extract and MiVeg hydrolysate No. 1 which supplies nitrogenous compounds, sulphur, carbon, vitamins and minerals. Osmotic equilibrium is maintained by sodium chloride.

Methodology

Suspend 23 grams of powder media in 1000 ml distilled water. Mix thoroughly. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°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 in tubes.

Reaction

Reaction of 2.3 % w/v aqueous solution pH: 7.2 ±0.2 at 25°C

pH range

7.0-7.4

Cultural Response/Characteristics

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

Organisms (ATCC)	Inoculum (CFU)	Growth(plain)	Growth w/blood	Recovery w/blood
<i>Bordetella pertussis</i> (8467)	10 ² -10 ³	Good- luxuriant	luxuriant	>70%
<i>Neisseria meningitidis</i> (13090)	10 ² -10 ³	Good-luxuriant	luxuriant	>70%
<i>Neisseria gonorrhoeae</i> (19424)	10 ² -10 ³	Good-luxuriant	luxuriant	>70%
<i>Streptococcus pyogenes</i> (19615)	10 ² -10 ³	Good-luxuriant	luxuriant	>70%



Dehydrated Culture Media
Bases / Media Supplements

# <i>Clostridium perfringens</i> (12919)	10 ² -10 ³	Fair-good	luxuriant	>70%
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Key : # = Incubated anaerobically

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 days.

Further Reading

1. Norton, 1932, J. Lab. Clin. Med., 17:585.

2. Walsbren 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.
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Central Drug House (P) Ltd. Corp. Office : 7/28, Vardaan House, Ansari Road, Daryaganj, New Delhi-110002 (INDIA)

Phone : +91-11-49404040 (100 Lines) Fax : +91-11-49404050 E-mail : sales@cdhfinechemical.com Website : www.cdhfinechemical.com