Technical Information

Dextrose MiVeg Agar

Product Code : VM1084

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

Composition

Ingredients	Gms / Litre
MiVeg hydrolysate No. 1	10.00
MiVeg extract	3.00
Dextrose	10.00
Sodium chloride	5.00
Agar	15.00
Final pH (at 25°C)	7.3±0.2

** Formula adjusted, standardized to suit performance parameters.

Principle & Interpretation

Dextrose MiVeg Agar 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).

It contains high concentration of dextrose as an energy source for the rapid growth of microorganisms. 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 serve as sources of nitrogenous compounds, sulphur, carbon, vitamins and minerals. Osmotic equilibrium is maintained by sodium chloride.

Methodology

Suspend 43 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. If desired, Blood Agar can be prepared by the addition of 5% v/v sterile, defibrinated sheep blood into sterile Dextrose MiVeg Agar, cooled to 50°C. Mix well and despense as desired.

Quality Control

Physical Appearance

Light yellow coloured may have slightly greenish tinge, 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 4.3 % w/v aqueous solution 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(plain)	Growth w/blood	Recovery w/blood
Bordetella pertussis (8467)	10^2-10^3	Good- luxuriant	luxuriant	>70%
Neisseria meningitidis (13090)	10^2-10^3	Good-luxuriant	luxuriant	>70%

Neisseria gonorrhoeae (19424)	10^2-10^3	Good-luxuriant	luxuriant	>70%
Streptococcus pyogenes (19615)	10^2-10^3	Good-luxuriant	luxuriant	>70%
#*Clostridium perfringens* (12919)	10^2-10^3	Fair-good	luxuriant	>70%

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: 2-8^0 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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