

Technical Information

Dextrose MiVeg Peptone Broth

Product Code : VM1650

Application:- Dextrose MiVeg Peptone Broth is used for general cultivation of organisms.

Composition

Ingredients	Gms / Litre
MiVeg peptone	20.0
Dextrose	10.0
Sodium chloride	5.0
Final pH (at 25°C)	7.2±0.2

** Formula adjusted, standardized to suit performance parameters.

Principle & Interpretation

Dextrose MiVeg Peptone Broth is prepared by using vegetable peptone in place of animal based peptones which makes the medium free from BSE/TSE risks. This medium is the modification of Dextrose Peptone Broth formulated as per suggestion by Williams (1) for the cultivation of microorganisms, which are fastidious, or present in small numbers, and also for the enumeration of the thermophilic bacteria responsible for flat sour spoilage of canned food. The conventional medium is also recommended by AOAC for the routine cultivation purpose (2).

It contains MiVeg peptone which supplies all nitrogenous compounds amino acids, peptides etc. for the growth of the organisms. Dextrose is the energy source. This medium can also be used for routine sterility testing.

Methodology

Suspend 35 grams of powder media in 1000 ml distilled water. Mix thoroughly. Heat if necessary to dissolve the medium completely. Dispense and 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 to slightly opalescent solution in tubes.

Reaction

Reaction of 3.5 % w/v aqueous solution pH: 7.2 ±0.2 at 25°C

pH range

7.0-7.4

Cultural Response/Characteristics

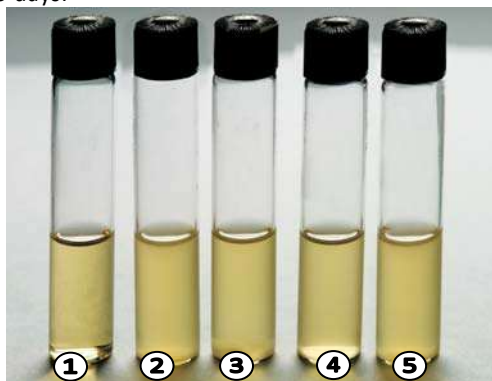
Cultural characteristics observed after an incubation at 35-37°C for 18-48 hours

Organisms (ATCC)	Inoculum (CFU)	Growth	Recovery
<i>Escherichia coli</i> (25922)	10 ² -10 ³	luxuriant	>70%
<i>Pseudomonas aeruginosa</i> (27853)	10 ² -10 ³	luxuriant	>70%
<i>Staphylococcus aureus</i> (25923)	10 ² -10 ³	luxuriant	>70%
<i>Streptococcus pyogenes</i> (19615)	10 ² -10 ³	luxuriant	>70%

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.



VM1650 Dextrose MiVeg Peptone Broth

1. Control
2. *Escherichia coli*
3. *Pseudomonas aeruginosa*
4. *Staphylococcus aureus*
5. *Streptococcus pyogenes*

Further Reading

1. Williams O.B., 1936, Food Res., 1(3):217.
2. Association of Official Analytical Chemists, 1978, Bacteriological Analytical Manual, 5th Ed. AOAC, Washington, D.C.

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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