

Technical Information

Maintenance MiVeg Medium for B. subtilis ATCC 6633

Product Code : VM1418

Application:- Maintenance MiVeg Medium for B. subtilis ATCC 6633 is a selective media recommended for maintenance of *Bacillus subtilis* ATCC 6633 which is used as test organism for microbiological assay of antibiotics.

Composition

Ingredients	Gms / Litre
MiVeg peptone	6.0
MiVeg hydrolysate	4.0
Yeast extract	3.0
MiVeg extract	1.5
Dextrose	1.0
Agar	15.0
Final pH (at 25°C)	6.6±0.2

** Formula adjusted, standardized to suit performance parameters.

Principle & Interpretation

Maintenance MiVeg Medium for B. subtilis ATCC 6633 is prepared from MiVeg peptone, MiVeg hydrolysate and MiVeg extract in place of animal based peptone, tryptone & Beef extract respectively, which makes the medium free from BSE/TSE risks. This medium is the modification of Maintenance Medium for B. subtilis ATCC 6633 used for the maintenance of *Bacillus subtilis* ATCC 6633 which is used as test organisms for microbiological assay of antibiotics (1).

It contains MiVeg peptone, MiVeg hydrolysate and MiVeg extract which supplies carbon and nitrogen for general requirements. Yeast extract provides B-complex vitamins which stimulate bacterial growth. Dextrose serve as the fermentable carbohydrate and energy source for bacterial replication.

Methodology

Suspend 30.5 grams of powder media in 1000 ml distilled water. Mix thoroughly. Heat to boiling to dissolve the medium completely. Dispense as desired 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.

Gelling

Firm, comparable with 1.5% Agar gel.

Colour and Clarity of prepared medium

Light yellow coloured, clear to slightly opalescent gel forms in tubes.

Reaction

Reaction of 3.05% w/v aqueous solution pH: 6.6 ±0.2 at 25°C

pH range

6.4-6.8

Cultural Response/Characteristics

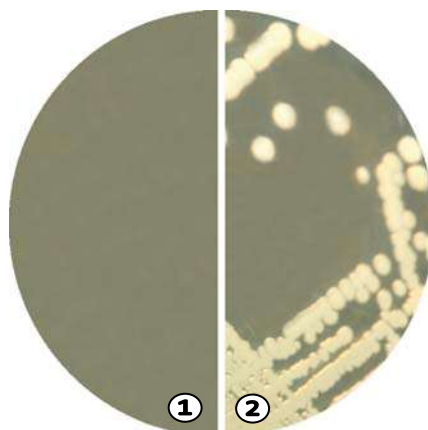
Cultural characteristics observed after an incubation at 35-37°C for 18-48 hours

Organisms (ATCC)	Inoculum (CFU)	Growth	Recovery
<i>Bacillus subtilis</i> (6633)	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.



VM1418 Maintenance MiVeg Medium for *B. subtilis* ATCC 6633
(Against dark background)

1. Control

2. *Bacillus subtilis*

Further Reading

1. Grove and Randall, 1955, Assay Methods of Antibiotics, Medical Encyclopedia, Inc, New York

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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