Technical Information

Antibiotic MiVeg Assay Medium No.35

Product Code : VM1798

Application:- Antibiotic MiVeg Assay Medium No. 35 is used for the microbiological assay of Bleomycin using *Mycobacterium smegmatis* .

Composition

Ingredients	Gms / Litre
MiVeg peptone	10.000
MiVeg extract	10.000
Sodium chloride	3.000
Agar	17.000
Final pH (at 25°C)	7.0±0.2

** Formula adjusted, standardized to suit performance parameters.

Principle & Interpretation

Antibiotic MiVeg Assay Medium No. 35 is prepared by using vegetable peptones instead of animal peptones, which makes the medium free from BSE/TSE risks . This can serve the same purpose of Antibiotic Assay Medium No. 35 which is formulated in accordance with CFR (1). This media can also be employed widely as base agar for agar diffusion assay of Bleomycin using *Mycobacterium smegmatis.* The MiVeg Peptone and MiVeg extract in this medium provides nutrients essential for growth of test organism. Agar provides excellent solid substratum for support and overlayering of seed agar, for the assay of Bleomycin. Addition of glycerol is important for provision of carbon to the test organism.

Freshly prepared medium should be prefered to perform the antibiotic assay. For the cylinder method, a base layer of 21 ml is required. Once the base medium has solidified, seed layer inoculated with the standardized culture can be overlaid. Even distribution of the layer is important.

Methodology

Suspend 40 grams of powder media in 1000 ml purified/distilled water containing 10 ml glycerol.. Mix thoroughly. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Suggestion *: This medium is recommended for the microbiological assay of Bleomycin.*

Quality Control

Physical Appearance

Cream to yellow homogeneous free flowing powder

Gelling

Firm, comparable with 1.7% Agar gel.

Colour and Clarity of prepared medium

Medium amber coloured clear to slightly opalescent gel forms in Petriplates

Reaction

Reaction of 4.0 % w/v aqueous solution containing 1% glycerol at 25°C pH: 7.0±0.2

pH range

6.80-7.20

Cultural Response/Characteristics

Cultural characteristics observed after an incubation at 36-37.5°C for 18-48 hours.

Organisms (ATCC)	Inoculum (CFU)	Growth	Recovery	Antibiotics assayed
Mycobacterium smegmatis ATCC 607	50-100	good -luxuriant	>=50%	Bleomycin

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. Tests and Methods of Assay of Antibiotics and Antibiotic containing Drugs, FDA, CFR, 1983 Title 21, Part 436, Subpart D, Washington, D.C.: U.S. Government Printing Office, paragraphs 436, 100-436, 106, p. 242-259, (April 1).

Disclaimer :

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