



Technical Data

Antibiotic HiVeg Assay Medium No.35

MV798

Antibiotic HiVeg Assay Medium No. 35 is used for the microbiological assay of Bleomycin using *Mycobacterium smegmatis* .

Composition**

Ingredients	Gms / Litre
HiVeg peptone	10.000
HiVeg 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

Directions

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

Advice: Recommended for the microbiological assay of Bleomycin .

Principle And Interpretation

Antibiotic HiVeg Assay Medium No. 35 is prepared by incorporating vegetable peptones in place of animal peptones, making the medium BSE-TSE risks free. This can be used for the same purpose of Antibiotic Assay Medium No. 35 which is formulated in accordance with CFR (1). MV798 can also be employed widely as base agar for agar diffusion assay of Bleomycin using *Mycobacterium smegmatis* . The nutrients essential for growth of test organism is provided by HiVeg Peptone and HiVeg extract in this medium. Agar provides excellent solid substratum for support and overlaying of seed agar, for the assay of Bleomycin. Addition of glycerol is important for provision of carbon to the test organism.

To perform the antibiotic assay the Base Agar should be prepared on the same day as the test. 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.

Note: For Antibiotic Assay Methods and Selection of Antibiotic HiVeg Assay Medias Refer Section Antibiotic HiVeg Assay Media.

Quality Control

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

6.80-7.20

Cultural Response

MV798: Cultural characteristics observed after an incubation at 36-37.5 for 18-48 hours.

Organism	Inoculum (CFU)	Growth	Recovery	Antibiotics assayed
<i>Mycobacterium smegmatis</i> ATCC 607	50-100	luxuriant	≥50%	Bleomycin

Please refer disclaimer Overleaf.

Storage and Shelf Life

Store below 30°C in tightly closed container and use freshly prepared medium . Use before expiry date on the label

Reference

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).

Revision : 1 / 2011



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