

Technical Data

Antibiotic Assay Medium No.35

M798

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

Composition**

Ingredients	Gms / Litre
Peptic digest of animal tissue (Peptone)	10.000
Beef 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 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

This medium is formulated in accordance to CFR (1). This medium is 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 peptic digest of animal tissue and beef extract in this medium. 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.

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.

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 Petri plates

Reaction

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

pН

6.80 - 7.20

Cultural Response

M798: Cultural characteristics observed after an incubation at 36-37.5 for 18-48 hours.

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

Storage and Shelf Life

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

Reference

HiMedia Laboratories Technical Data

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

Revision: 2 / 2015

Disclaimer :

User must ensure suitability of the product(s) in their application prior to use. Products conform solely to the information contained in this and other related HiMediaTM publications. The information contained in this publication is based on our research and development work and is to the best of our knowledge true and accurate. HiMediaTM Laboratories Pvt Ltd reserves the right to make changes to specifications and information related to the products at any time. Products are not intended for human or animal or therapeutic use but for laboratory, diagnostic, research or further manufacturing use only, unless otherwise specified. Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.