



Antibiotic Assay Medium No. 34

M797

Antibiotic Assay Medium No. 34 is used for preparation of suspension of *Mycobacterium smegmatis* used as a test organism for the assay of Bleomycin.

Composition**

Ingredients	Gms / Litre
Peptic digest of animal tissue (Peptone)	10.000
Beef extract	10.000
Sodium chloride	3.000
Final pH (at 25°C)	7.0±0.2

**Formula adjusted, standardized to suit performance parameters

Directions

Suspend 23 grams in 1000 ml distilled water containing 10 gms glycerol. Heat if necessary to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool and dispense as desired.

Advice : Recommended for the microbiological assay of Bleomycin

Principle And Interpretation

This medium is formulated in accordance with CFR (1). This medium is generally employed to prepare *Mycobacterium smegmatis* suspension required for assaying antineoplastic agents like Bleomycin.

This medium provides optimal conditions to maintain the viability of the test organism i.e. *Mycobacterium smegmatis*. Peptic digest of animal tissue and beef extract in the medium provides nutrients essential for growth, while addition of glycerol provides slow and continuous supply of carbon and energy source. The osmotic equilibrium for integrity of cell and its viability is maintained in presence of sodium chloride present in this medium.

Quality Control

Appearance

Cream to yellow homogeneous free flowing powder

Colour and Clarity of prepared medium

Yellow coloured clear solution without any precipitate

Reaction

Reaction of 2.3% w/v aqueous solution containing 1% glycerol at 25°C. pH : 7.0±0.2

pH

6.80-7.20

Cultural Response

M797: Cultural characteristics observed after an incubation at 35-37°C for 18-48 hours .

Organism	Inoculum (CFU)	Growth	Serial dilution with
<i>Mycobacterium smegmatis</i> ATCC 607	50-100	luxuriant	Bleomycin sulphate

Storage and Shelf Life

Store below 30°C in tightly closed container and the prepared medium at 2 - 8°C. 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).

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