



Antibiotic assay medium No. 36

MU1666

Antibiotic assay medium No. 36 is used for cultivation of a wide variety of microorganisms and sterility testing of moulds in accordance with United States Pharmacopoeia.

Composition**

Ingredients	Gms / Litre
Pancreatic digest of casein	15.000
Papaic digest of soybean	5.000
Sodium chloride	5.000
Agar	15.000
Final pH (at 25°C)	7.3±0.1

**Formula adjusted, standardized to suit performance parameters

Directions

Suspend 40 grams in 1000 ml purified/ distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Mix well and pour into sterile Petri plates.

Principle And Interpretation

Grove and Randall have elucidated the antibiotic assays and medias in their comprehensive treatise on antibiotic assays (1). Antibiotic assay Medium No. 36 is recommended for preparation of inoculum of *Mycobacterium smegmatis* for the assay of Bleomycin. This medium is also used for the cultivation of a wide variety of microorganisms and sterility testing of pharmaceutical preparations. (3). This medium is formulated in accordance with The United States Pharmacopoeia (2).

The combination of pancreatic digest of casein and papaic digest of soybean makes this medium nutritious by providing amino acids and long chain peptides for the growth of microorganisms.. Sodium chloride maintains the osmotic balance of the medium

Quality Control

Appearance

Cream to yellow 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 Petri plates

pH

7.20-7.40

Growth Promotion Test

In accordance with the harmonized method of USP.

Cultural Response

MU1666: Cultural characteristics observed after an incubation at 36 -37.5°C for 18-48 hours.

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

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

2. United States Pharmacopoeia 1985, US Pharmacopoeial Convention, Inc., Rockville, MD.
3. Wright and Welch, 1959-60, Antibiotics Ann., 61

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