



Antibiotic Assay Medium No. 8 (Base Agar w/low pH)

M041

Antibiotic Assay Medium No. 8 is used in the microbiological assay of Oxytetracycline, Tetracycline and Vancomycin..

Composition**

Ingredients	Gms / Litre
Peptic digest of animal tissue (Peptone)	6.000
Yeast extract	3.000
Beef extract	1.500
Agar	15.000
Final pH (at 25°C)	5.9±0.2

**Formula adjusted, standardized to suit performance parameters

Directions

Suspend 25.5 grams in 1000 ml distilled water. 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 Oxytetracycline, Tetracycline and Vancomycin .

Principle And Interpretation

Antibiotic Assay Media are used in the performance of antibiotic assays. Grove and Randall have elucidated those antibiotic assays and media in their comprehensive treatise on antibiotic assays (1). Schmidt and Moyer have reported the use of antibiotic assay medium for the liquid formulation used in the performance of antibiotic assay (2). These media are prepared according to the specifications detailed in the USP(3) and FDA (4).

Beef extract, yeast extract and peptic digest of animal tissue serves as a source of nutrients and growth factors.

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 amber coloured opalescent gel forms in Petri plates

Reaction

Reaction of 2.55% w/v aqueous solution at 25°C. pH : 5.9±0.2

pH

5.70-6.10

Cultural Response

M041: Cultural characteristics observed after an incubation at 35-37°C for 18-24 hours.

Organism	Inoculum (CFU)	Growth	Recovery	Antibiotics assayed
<i>Bacillus subtilis</i> ATCC 6633	50-100	luxuriant	≥70%	Mitomycin, Vancomycin
<i>Bacillus cereus</i> var <i>mycoides</i> ATCC 11778	50-100	luxuriant	≥70%	Oxytetracycline, Tetracycline

Storage and Shelf Life

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

Reference

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

2. Schmidt and Moyer, 1944, J. Bact., 47:199.
3. United States Pharmacopoeia 2009, US Pharmacopoeial Convention, Inc., Rockville, MD.
4. 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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