



## Yeast Beef Assay Broth (Antibiotic Assay Medium No. 21)

M437

Antibiotic Assay Medium No. 21 (Yeast Beef Assay Broth) is used for the microbiological assay of Amphotericin B using *Candida tropicalis* ATCC 13803 as the test organism.

### Composition\*\*

| Ingredients             | Gms / Litre |
|-------------------------|-------------|
| Beef extract            | 1.500       |
| Gelatine peptone        | 5.000       |
| Yeast extract           | 1.500       |
| Dextrose                | 11.000      |
| Sodium chloride         | 3.500       |
| Dipotassium phosphate   | 3.680       |
| Monopotassium phosphate | 1.320       |
| Final pH ( at 25°C)     | 6.6±0.2     |

\*\*Formula adjusted, standardized to suit performance parameters

### Directions

Suspend 27.5 grams in 1000 ml distilled water. 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.

### Principle And Interpretation

Antibiotics Assay Medium are used in the performance of antibiotic assays. Grove and Randall have elucidated those antibiotics assays and media in their comprehensive treatise on antibiotic assays (1). Schmidt Moyer have reported the use of antibiotic assay medium for the liquid formulation used in the performance of antibiotic assay (2).

Nutrients and growth factors are provided by ingredients like gelatine peptone, beef extract, yeast extract. Dextrose provides energy source. Sodium chloride provides the osmotic balance and the phosphates provide the buffering system.

### Quality Control

#### Appearance

Light yellow coloured homogeneous free flowing powder

#### Colour and Clarity of prepared medium

Medium amber coloured clear solution

#### Reaction

Reaction of 2.75% w/v aqueous solution at 25°C. pH : 6.6±0.2

#### pH

6.40-6.80

#### Cultural Response

M437: Cultural characteristics observed after an incubation at 30°C for 18-48 hours.

| Organism                                  | Inoculum (CFU) | Growth    |
|---|----------------|-----------|
| <b>Cultural Response</b>                  |                |           |
| <i>Candida albicans</i> ATCC 10231        | 50-100         | luxuriant |
| <i>Candida tropicalis</i> ATCC 13803      | 50-100         | luxuriant |
| <i>Saccharomyces cerevisiae</i> ATCC 2601 | 50-100         | luxuriant |

### 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.Vera H.D., 1944, J. Bacteriol., 47:59.
- 2.MacFaddin J.,1985, Media for Isolation-Cultivation-Identification-Maintenance of Medical Bacteria, Vol. I, Williams and Wilkins, Baltimore.

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