



Dehydrated Culture Media  
Bases / Media Supplements

## Technical Information

### Antibiotic Assay Medium I

**Product Code: DM 2847B**

**Application:** - Antibiotic Assay Medium I is recommended for the microbiological turbidimetric assay of Apramycin using *Salmonella choleraesuis* as a test organism in accordance with British Pharmacopoeia.

### Composition\*\*

Ingredients	Gms / Litre
D-Glucose	10.000
Yeast extract	2.000
Tryptone	6.000
Final pH	8.0

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

### Principle & Interpretation

Antibiotic Assay Medium I is formulated in accordance to British Pharmacopoeia (1). This medium is employed for turbidimetric assay of Apramycin, an antibiotic of the aminocyclitol group, using *Salmonella choleraesuis*. Turbidimetric methods for determining the potency of antibiotics are inherently more accurate and more precise than comparable agar diffusion procedures. Essential nutrients for growth of test organism is provided by Tryptone and yeast extract in this medium. D-Glucose serves as source of carbon to the test organism. Turbidimetric antibiotic assay is based on the change or provides the growth of a test microorganism in a liquid medium containing a uniform concentration of an antibiotic. This method is use appropriate only when test samples are clear.

### Methodology

Suspend 18 grams of dehydrated culture media in 1000 ml distilled water. Mix thoroughly & heat if necessary to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Dispense as desired.

### Quality Control

#### Appearance

Cream to yellow coloured homogeneous free flowing powder

#### Colour and Clarity

Light yellow coloured clear solution in tubes

#### Reaction

Reaction of 1.8% w/v aqueous solution. pH : 8.0

#### pH Range

8.0

#### Cultural Response

DM2847B: Cultural characteristics observed after an incubation at 35-37°C for 12 - 24 hours.

Organism	Inoculum (CFU)	Growth	Serial dilution with
<i>Salmonella Choleraesuis</i> ATCC 12011	50-100	luxuriant	Apramycin





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## Storage and Shelf Life

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

**Prepared Media:** 2-8° in sealable plastic bags for 2-5 days.

## Further Reading

1. British Pharmacopoeia, 2011, British Pharmacopoeia Commission.

## Disclaimer :

- User must ensure suitability of the product(s) in their application prior to use.
- The product conform solely to the technical information provided in this booklet and to the best of knowledge research and development work carried at CDH is true and accurate
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