

## Antibiotic Assay Medium H

### Intended Use

Antibiotic Assay Medium H is used for the microbiological turbidimetric assay of Apramycin using *Salmonella choleraesuis* as a test organism.

### Summary

Antibiotic Assay Medium H is employed for turbidimetric assay of Apramycin, an antibiotic of the aminocyclitol group, using *Salmonella choleraesuis*. It is formulated in accordance with British Pharmacopoeia.

Turbidimetric methods for determining the potency of antibiotics are inherently more accurate and more precise than comparable agar diffusion procedures.

### Principle

Casein enzymic hydrolysate and yeast extract provides essential nutrients for growth of test organism. D-Glucose is important as source of carbon to the test organism. Turbidimetric antibiotic assay is based on the change or inhibition of growth of a test microorganism in a liquid medium containing a uniform concentration of an antibiotic. Use of this method is appropriate only when test samples are clear.

### Formula\*

Ingredients	g/L
Casein enzymic hydrolysate	6.0
Yeast extract	2.0
D-Glucose	10.0
Final pH (at 25°C)	8.0 ± 0.2

\*Adjusted to suit performance parameters

### Storage and Stability

Store dehydrated medium below 30°C in tightly closed container and the prepared medium at 2°C-8°C. Avoid freezing and overheating. Use before expiry date on the label. Once opened keep powdered medium closed to avoid hydration.

### Specimen Collection and Handling

Ensure that all samples are properly labelled.

Follow appropriate techniques for handling samples as per established guidelines.

Some samples may require special handling, such as immediate refrigeration or protection from light, follow the standard procedure. The samples must be stored and tested within the permissible time duration.

After use, contaminated materials must be sterilized by autoclaving before discarding.

### Directions

1. Suspend 18.00 g of the powder in 1000 mL purified / distilled water.
2. Heat if necessary, to dissolve the powder completely.
3. Dispense as required.
4. Sterilize by autoclaving at 121°C (15 psi) for 15 minutes as per validated cycle.

### Quality Control

**Dehydrated Appearance:** Cream to yellow coloured, homogeneous, free flowing powder.

**Prepared Appearance:** Light yellow coloured, clear to slightly opalescent solution.

**Cultural Response:** Cultural characteristics observed after an incubation of 12-24 hours at 35°C -37°C.

### Organism (ATCC)

*Salmonella choleraesuis* (12011)

### Growth

Good

### Serial dilution with

Apramycin

### Performance and Evaluation

Performance of the product is dependent on following parameters as per product label claim:

1. Directions
2. Storage
3. Expiry

### Warranty

This product is designed to perform as described on the label and package insert. The manufacturer disclaims any implied warranty of use and sale for any other purpose.

### Reference

1. British Pharmacopoeia, 2009, British Pharmacopoeia Commission
2. Data on file: Microxpress®, A Division of Tulip Diagnostics (P) Ltd.

### Product Presentation:

Cat No.	Product description	Pack Size
201010190500	Dehydrated Culture Media	500 g

### Disclaimer

Information provided is based on our inhouse technical data on file, it is recommended that user should validate at his end for suitable use of the product.

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