



Antibiotic Assay Medium H

M1665

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

Composition**

Ingredients	Gms / Litre
Casein enzymic hydrolysate	6.000
Yeast extract	2.000
D-Glucose	10.000
Final pH (at 25°C)	8.00±0.2

**Formula adjusted, standardized to suit performance parameters

Directions

Suspend 18 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

Principle And Interpretation

This medium is formulated in accordance with 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 casein enzymic hydrolysate and yeast extract in this medium. 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.

Quality Control

Appearance

Cream to yellow homogeneous free flowing powder

Colour and Clarity of prepared medium

Light yellow coloured clear to slightly opalescent solution.

Reaction

Reaction of 1.8% w/v aqueous solution at 25°C. pH : 8.00±0.2

pH

7.80-8.20

Cultural Response

M1665: Cultural characteristics observed after an incubation at 35-37°C for 12-24 hours.

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

Storage and Shelf Life

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

Reference

1. British Pharmacopoeia, 2009, British Pharmacopoeia Commission

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Disclaimer :

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