Chaitanya Group Of Industries

ReadyMED®
Dehydrated Cell Culture Media

Technical Data Sheet

Antibiotic Assay Medium No- 8 RDM-AAM-08

Principle
The media is composed according to the USP and CFR, and recommended as antimicrobial assay medium for vankomycin. It is composed of peptone, yeast extract, meat extract and agar. Peptone, meat extract provide nitrogen, carbon and essential nutrients. Sodium chloride maintains osmatic balance. Dibasic potassium phosphate acts as buffering agent. Dextrose serves as energy source. This medium is used as base layer for plate assay of antibiotics.

Use: Recommended for microbiological assay of Vancomycin.

Contents*

Ingredients	**Gram/Litre**
Peptone	6.000
Yeast Extract	3.000
Meat Extract #	1.500
Agar	15.000
pH at 25˚C	5.9 ±0.1

* Formula adjusted for optimum performance and parameters

Directions: Dissolve 25.5 grams in 1000 ml distilled water. Boil to dissolve the medium completely and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 min, cool it to 42-45 °C, and distribute aseptically (20 ml) in petri plates and ensure complete solidification and add 4 ml of seed layer of inoculum.

Precautions to be taken
These microbial media are intended for the in-vitro use only. All the handling, experiments, storage, and discarding should be performed with the help of skilled and knowledgeable technicians and as per the established guidelines. The material should be disposed only after proper sterilization by autoclaving. Please go through the MSDS of the media to avoid any accidents or in emergency.

Performance and Evaluation
The expected performance of the medium is liable to use as per the direction on the label when stored at optimum conditions and within expiry date.

Quality Control

Appearance	Beige colored free flowing, homogeneous powder
Reaction of 5.0% solution	5.9 ±0.1 at 25 ˚C
pH	5.80- 6.00
Gelling	Firm comparable with 1.5% agar gel
Color and clarity of ready medium	Light amber colored opalescent gel
Growth Promotion properties	Best at ≤ 100 CFU at 32-37 ºC for 18-72 h
Indicative properties	Optimum at ≤ 100 CFU at 32-37 ºC for 18-48 h
Negative control	Performed using sterile distilled water

Different Microbial Response
Cultural characteristics observed after incubation at 33-37 ºC for 18-48 hrs.

Organism	ATCC	Inoculum	Growth	Recovery	Antibiotic assayed
Bacillus spizizenii	6633	50-100	Luxurious	70-80%	Vankomycin

Storage and Shelf Life
Hygroscopic; keep container tightly closed. Store in cool dry place.

Disposal: To avoid the contamination or propagation of any hazardous microbes the used, unusable or modified preparation of this product must be disposed after autoclaving after completion of task.

Reference

1. Atlas, R. M. (2005). *Handbook of media for environmental microbiology*. CRC press.
2. *Difco Manual* (1998). 11th Edition. Difco Laboratories., Division of Becton Dickinson and Company, Sparks, Maryland, USA.
3. *The United States Pharmacopoeia*, (2014), The United States Pharmacopeial Convention. 12601 Twinbrook Parkway, Rockvukke, MD 20852.

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