Chaitanya Group Of Industries

ReadyMED®
Dehydrated Cell Culture Media

Technical Data Sheet

Antibiotic Assay Medium No- 5 RDM-AAM-05

Principle
The media is composed according to the USP, recommended as antibiotic assay medium. It is composed of peptone, yeast extract, meat extract, and agar. Peptone, yeast extract and meat extract provide nitrogen, carbon, vitamins essential nutrients. Agar is solidifying agent. The alkaline pH 7.9 makes it suitable medium for *Bacillus subtilis*. The AAM-5, used as seed agar as well as base agar for the Antibiotic Assay Medium against the *Bacillus subtilis*.

Use: Recommended for microbiological assay of Dihydrostreptomycin using *Bacillus subtilis* in accordance with United States Pharmacopoeia.

Contents*

Ingredients	**Gram/Litre**
Peptone	6.000
Yeast Extract	3.000
Meat Extract#	1.500
Agar	15.000
pH at 25˚C	7.9 ±0.1

* Formula adjusted for optimum performance and parameters
# Equivalent of Beef Extract

Directions: Dissolve 25.50 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 in petri plates. Ensure complete solidification and inoculate test sample aseptically.

Specimens types analyzed
Recommended for the Microbiological assay of Streptomycin *etc*.

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 2.55% solution	7..9 ±0.2 at 25 ˚C
pH	7.80- 8.00
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 an incubation at 33-37 ℃ for 18-48 hrs.

Organism	ATCC	Inoculum	Growth	Antibiotic assayed
Bacillus spizizenii	6633	50-100	Good-Luxurious	Streptomycin

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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