



Antibiotic Assay Medium No-1

RDM-AAM-01

Principle

The media is composed according to the USP, recommended as antibiotic assay medium. It is composed of peptone, pancreatic digest of casein, yeast extract, meat extract, dextrose and agar. Peptone, pancreatic digest of casein, yeast extract and meat extract provide nitrogen, carbon, vitamins essential nutrients. Dextrose serves as energy source. This medium is used as seed agar, maintenance agar for the different variety of test microbes used for the antibiotic assay.

Use: Recommended for microbiological assay of β -lactam containing antibiotics against variety of the microbes in accordance with United States Pharmacopoeia.

Contents*

Ingredients	Gram/Litre
Peptone	6.000
Pancreatic Digest of Casein	4.000
Yeast Extract	3.000
Meat Extract#	1.500
Dextrose	1.000
Agar	15.000
pH at 25°C	6.6 \pm 0.2

*Formula adjusted for optimum performance and parameters

Equivalent of Beef Extract

Directions: Dissolve 30.50 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 seed agar, maintenance agar for the different variety of test microbes *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 3.05% solution	6.6 \pm 0.2 at 25 °C
pH	6.40-6.80
Gelling	Firm comparable with 1.5% agar gel
Color and clarity of ready medium	Light amber colored opalescent gel
Growth Promotion properties	Best at \leq 100 CFU at 32-37 °C for 18-72 h
Indicative properties	Optimum at \leq 100 CFU at 32-37 °C for 18-48 h
Negative control	Performed using sterile distilled water