

TECHNICAL DATA SHEET

Antibiotic Assay Medium No.19

Principle

The media is composed according to the USP, recommended as antibiotic assay medium. It is composed of peptone, yeast extract, meat extract (equivalent to beef extract), sodium chloride, dextrose and agar. Peptone, yeast extract and meat peptone provide nitrogen, carbon, long chain amino acids, vitamins and essential nutrients for the growth of microorganisms. Sodium chloride maintains osmotic balance. Dextrose serves as energy source. Agar is solidifying agent.

Use: For microbiological assay of Amphotericin B, Natamycin and Nystatin using *Saccharomyces Cerevisiae*.

Contents*

Ingredients	Gram/Litre
Peptone	9.400
Yeast Extract	4.700
Meat Extract#	2.400
Sodium Chloride	10.000
Dextrose	10.000
Agar	23.500
pH at 25°C	6.1 ±0.1

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

Directions: Dissolve 60.0 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 sterile petri plates. Ensure complete solidification and inoculate test organisms aseptically.

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.

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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	Light beige colored free flowing, homogeneous powder
Reaction of 6.0% solution	6.1 ±0.1 at 25°C
pH	5.90- 6.30
Gelling	Firm comparable with 2.35% agar gel
Color and clarity of ready medium	Light amber colored opalescent gel
Growth Promotion properties	Best at ≤ 100 CFU at 25-30°C for 24-72 h
Indicative properties	Optimum at ≤ 100 CFU at 25-30°C for 24-48 h
Negative control	Performed using sterile distilled water

Different Microbial Response

Cultural characteristics observed after incubation at 25-30°C for 24-48 hrs.

Organism	ATCC no.	Inoculum	Growth	Recovery	Antibiotic assayed
<i>Saccharomyces cerevisiae</i>	9736	50-100	Luxurious	≥ 70 %	Nystatin, Amphotericin B

Storage and Shelf Life: The product is highly hygroscopic; keep the container tightly closed at all times and store it properly as per the conditions mentioned on the label. The declared expiry is valid only when stored as per the conditions mentioned on the label. Note: Sterilize media immediately after reconstitution.

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.

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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 Pharmacopoeial Convention. 12601 Twinbrook Parkway, Rockvukke, MD 20852.**

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