

# OXFORD LAB FINE CHEM LLP

ISO 9001-2008 Certified Company

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## **TECHNICAL DATA SHEET**

### **Antibiotic Assay Medium No.2 (Base Agar)**

#### **Principle**

The media is composed according to the USP, recommended as basal medium for antibiotic assay of wide variety of antibiotics. It is composed of peptone, meat extract, yeast extract, and agar. Peptone, meat extract, and yeast extract provide nitrogen, carbon, vitamins essential nutrients. This medium is used as basal medium for seed agar, used for the wide variety of antibiotic assay.

**Use:** Recommended as a basal medium for microbiological assay of antibiotics.

#### **Contents\***

##### **Ingredients**

**Peptone**  
**Meat extract**  
**Yeast**  
**Extract**

**Gram/Litre**

**6.000**  
**1.500**  
**3.000**  
**15.000**  
**6.6 ±0.2**

**Agar**

**pH at 25°C**

**\*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 aseptically add Antibiotic assay medium No. 1 as seed agar, inoculated with the microbial culture.

#### **Specimens types analyzed**

**Recommended as basal medium for seeded agar for the different variety of antibiotics assays.**

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## 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	6.6 ±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 ≤ 100 CFU at 32-37 °C for 18-72 h
Indicative properties	Optimum at ≤ 100 CFU at 32-37 °C for 18-48 h
Negative control	Performed using sterile distilled water

## Different Microbial Response

Cultural characteristics observed after incubation at 33-37 °C for 18-48 hrs.

Organism	ATCC	Inoculum	Growth	Recovery	Basal layer	Compliance
<i>Escherichia coli</i>	8739	50-100	Luxurious	≥ 80%	Chloramphenicol	Complies.
<i>Salmonella epidermidis</i>	12228	50-100	Luxurious	≥ 80%	Tetracycline	Complies.
<i>Staphylococcus aureus</i>	9739	50-100	Luxurious	≥ 80%	Amikacin, Cephalothin, Oxytetracycline	Complies.

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**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.

## Reference

1. Atlas, R. M. (2005). *Handbook of media for environmental microbiology*. CRC press.
2. *Difco Manual* (1998). 11<sup>th</sup> 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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