

# INSTRUCTIONS FOR USE

## MUELLER HINTON AGAR PLATES

P90/MHA - 20

### INTENDED USE

Mueller Hinton Agar is recommended for antimicrobial disc diffusion susceptibility testing of common, rapidly growing bacteria by the Bauer-Kirby method, as standardized by the Clinical and Laboratory Standards Institute.

### TYPES OF SAMPLES

- Clinical

### SPECIMEN COLLECTION AND HANDLING

Follow the appropriate sampling technique as per standard guidelines. Sampling and transport equipment must be used in accordance with the recommendations of their suppliers for the conservation of strains.

### MATERIAL REQUIRED BUT NOT PROVIDED

Standard microbiological laboratory material for culture media preparation, control, streaking, incubation, and waste disposal.

### PRECAUTIONS

- For in-Vitro diagnostic use. Read the label details and storage before opening the pack.
- Wear protective gloves / protective clothing / eye protection / face protection.
- Follow good microbiological lab practices while handling specimens and culture.

### STORAGE & SHELF LIFE

- Store at 10 -15 °C.
- Use before the expiry date mentioned on the label.
- Keep away from direct light.

## PHYSICAL PARAMETERS OF PREPARED PLATES

✓ Appearance: 90 mm petri plates with a smooth surface and absence of any particles, cracks, or bubbles.

✓ Colour: Light to Medium Amber

✓ Clarity: Slightly Opalescent

## INSTRUCTIONS FOR USE

- Open the sterile pack and remove the plates aseptically.
- Ensure the aseptic conditions are maintained while inoculating the plates.
- Inoculate the samples on each plate & incubate the plates at 35-37 °C for 24-48 hrs.
- Check the plates after 24 hrs for any microbial growth and disc diffusion.

## CHECK

✓ Plate should be at room temperature before streaking the sample on the plate.

## INOCULATION & INTERPRETATION

Inoculum: 50-100 CFU    Incubation temperature: 35-37 °C    Incubation time: 24-48 hrs

Test Strains	ATCC No.	Growth
<i>Escherichia coli</i>	ATCC 25922	Good
<i>Staphylococcus aureus</i>	ATCC 25923	Good
<i>Pseudomonas aeruginosa</i>	ATCC 27853	Good
<i>Enterococcus faecalis</i>	ATCC 29212	Good

## LIMITATIONS & COMPLEMENTARY TESTS

- It is a non-selective, non-differential medium. This means that almost all organisms plated on here will grow.
- Both the para-aminobenzoic acid (PABA) and thymine/thymidine content in Mueller Hinton Agar are reduced to a minimum, thus markedly reducing the inactivation of sulfonamides and trimethoprim when the media is used for testing the susceptibility of bacterial isolates to these antimicrobics.

## DISPOSAL

User must ensure safe disposal by autoclaving and/or incineration of used or unusable preparations of this product. Materials that have come in contact with infectious / clinical samples must be decontaminated and disposed of in accordance with current laboratory techniques and regulations.