

INSTRUCTIONS FOR USE

MACCONKEY AGAR PLATES

P90/MAC - 20

INTENDED USE

MacConkey agar is slightly selective and differential media mainly used for the detection and isolation of gram-negative organisms from clinical, dairy, food, water, pharmaceutical, cosmetic, and other industrial sources.

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: Reddish Purple
- ✓ Clarity: Slightly Opalescent

INSTRUCTIONS FOR USE

CHECK

- 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 hrs.
- Check the plates after 24 hrs for any microbial growth and haemolysis of the strains.
- ✓ 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	Colour of the colony
<i>Escherichia coli</i>	ATCC 25922	Good	Pink to red with bile precipitation
<i>Proteus mirabilis</i>	ATCC 25933	Good	Colourless
<i>Salmonella typhimurium</i>	ATCC 14028	Good	Colourless
<i>Enterococcus faecalis</i>	ATCC 29212	Inhibited	-
<i>Staphylococcus aureus</i>	ATCC 25923	Inhibited	-

LIMITATIONS & COMPLEMENTARY TESTS

- Only presumptive identification is possible by observing colony morphology. However, for the final identification, they have to be sub-cultured, and confirmation tests should be done.
- The final identification must be confirmed by biochemical tests, immunological tests or by mass spectrophotometry. They can be done directly from the suspicious colonies observed on the medium.

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.