

# INSTRUCTIONS FOR USE

## XYLOSE LYSINE DEOXYCHOLATE AGAR PLATES

P90/XLD - 20

### INTENDED USE

Xylose Lysine Deoxycholate Agar is moderately selective medium used for isolation and differentiation of Salmonella and Shigella species.

### TYPES OF SAMPLES

- Clinical
- Food

### 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 red to red
- ✓ 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 24-48 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 hrs

Test Strains	ATCC No.	Inoculum	Observed CFU	Growth	Colour of the colony
<b><i>Salmonella typhimurium</i></b>	ATCC 14028	50-100 CFU	76	Good	Red-Yellow
<b><i>Escherichia coli</i></b>	ATCC 25922	>1000 CFU	Partial to complete inhibition	Partial to complete inhibition	-

## LIMITATIONS & COMPLEMENTARY TESTS

- It is advisable not to prepare large volumes, which will require prolonged heating.
- Longer incubation may result in false positive results.
- Some species of Salmonella like *S. paratyphi* A, *S. choleraesuis*, *S. gallinarum* and *S. pullorum* form red colonies without black centers, which resemble *Shigella* colonies.

## **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.