

# DATA SHEET

## SteriMedia™ Xylose Lysine Decarboxylation Agar (XLDA) RTU Plates (Triple Layer Pack)



### Product Description

SteriMedia™ XLDA (XLD Agar) RTU Plates are sterile, ready-to-use culture media is a **selective and differential medium** used for the isolation of enteric pathogens, especially *Salmonella* and *Shigella* from clinical, food, and environmental samples.

- Reliable detection of Salmonella & Shigella
- Clear H<sub>2</sub>S visualization
- Optimized for pharma & food testing
- Consistent batch performance

### Product Specifications

#### Item Name

Ready-to-Use (RTU) SteriMedia™ XLDA (XLD Agar) Plates

#### Application / Usage

Pharmaceutical microbiology (MLT) and Water & wastewater testing.

#### Plate Size

90 mm

#### Fill Volume

20-25 ml

#### pH

7.4 ± 0.2 @ 25°C

#### Color

Red colored

#### Packaging

Individually packed, 5 plates per pack for 90 mm  
Double and Triple Packed

#### Sterility

Sterilized at 121°C for 30 minutes and Aseptically Filled

#### Shelf life

3 Months

#### Storage Condition

Below 25°C

#### HSN Code/Country of origin

38210000 India

### Application

- Pharmaceutical microbiology (MLT)
- Clinical & diagnostic labs
- Food & dairy testing

### Key Feature

- Reliable detection of Salmonella & Shigella
- Clear H<sub>2</sub>S visualization
- Optimized for pharma & food testing
- Consistent batch performance

### Principle of the Medium

- Sodium deoxycholate → inhibits Gram-positive organisms
- Xylose fermentation → initial acid production (yellow colonies)
- Lysine decarboxylation (by Salmonella) → reverts to alkaline (red)
- Sodium thiosulfate + ferric ammonium citrate → detects H<sub>2</sub>S production

### Result

- *Salmonella* → Red colonies with black centers (H<sub>2</sub>S +)
- *Shigella* → Red colonies (no H<sub>2</sub>S)
- Other enterics → Yellow colonies



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### Base Ingredients

Ingredients	G/L
Yeast extract	3.0
L-lysine	5.0
Xylose	3.50
Lactose monohydrate	7.5
Sucrose	7.5
Sodium deoxycholate	2.50
Ferric ammonium citrate	0.8
Phenol red	0.08
Sodium chloride	5.00
Sodium thiosulphate	6.80
Agar	13.50

### Growth Promotion Test

Growth promotion is carried out in accordance with the harmonized method of USP/EP/JP and growth is observed after an incubation at 30°C-35°C for ≤ 3.

#### Test Procedure

1. Prepare inoculum:
  - 10–100 CFU for Selectivity
  - NLT 100 CFU for Inhibition Test
2. Inoculation:
  - Spread or streak on CA plate
3. Incubation:
  - 30–35°C for 18–72 hours

Organism (ATCC)	Growth	Incubation Temperature	Incubation Period	Acceptance Criteria
<i>Salmonella abony</i> NCTC 6017	Red colonies with black center	30°C-35°C	18-24 Hours	Salmonella ATCC 14028 → Good growth, red colonies with black center (H <sub>2</sub> S +)
<i>Shigella boydii</i> ATCC 8700	Red color colony	30°C-35°C	18-24 Hours	Staphylococcus aureus- No growth (inhibited)
<i>Staphylococcus aureus</i> 6538	No growth	30°C-35°C	72 Hours	

Product	Product Description	Packing
LPXLA001	Xylose Lysine Decarboxylation Agar (XLDA) 90mm Triple wrapped	1 Pack- 5 Plates Triple wrapped
LPXLA001BR	Bar Coded Xylose Lysine Decarboxylation Agar (XLDA) 90mm Triple wrapped	1 Pack- 5 Plates Triple wrapped
LPXLA001BRL	Bar Coded Lockable Xylose Lysine Decarboxylation Agar (XLDA) 90mm Triple wrapped	1 Pack- 5 Plates Triple wrapped

