

XLD AGAR Prepared Media For the cultivation of bacteria

PD104 XLD AGAR, 90 mm Petri dish with media

Appearance: Reddish-Orange

Intended Use and Principles of the Procedure

XLD AGAR (Xylose Lysine Deoxycholate Agar) is a selective growing media for Gram-negative enteric bacilli, specifically for *shigella* and *salmonella*. The selective reactions identify in the color change of the agar from red to yellow.

The media is also used for detection of *Salmonella* in different foods and liquids.

Formula- XLD Agar Approximate Formula (Gram/Liter)

Bacteriological agar-13.5. L-Lysine- 5. Sodium chloride- 5. Sodium Thiosulfate- 6.8. Xylose- 3.5. Lactose monohydrate- 7.5. Ferric ammonium citrate- 0.8. Phenol red-0.08. Sodium deoxycholate- 2.5. Sucrose-7.5. Yeast extract- 3.

QC performance

pH at RT - 7.4 ± 0.2

GPT: inoculum 10-100 cfu.

Inhibition- inoculum 10000 cfu

Test	ATCC No.	Incubation Temp. (°C)	Incubation Cond.	Reaction
<i>salmonella typhimurium</i>	14028	30-35	Aerobic, 18-24 hours	Pink-red with black center. H2S positive
<i>Salmonella enteritidis</i>	13076	30-35	Aerobic, 18-24 hours	Pink-red with black center. H2S positive
<i>Shigella sonnei</i>	29930	30-35	Aerobic, 18-24 hours	Pink-red
<i>Shigella flexneri</i>	29903	30-35	Aerobic, 18-24 hours	Pink-red
Salmonella abony	6017	30-35	Aerobic, 18-24 hours	Pink-yellow with black center. H2S positive
<i>Escherichia coli</i>	8739	30-35	Aerobic, 18-24 hours	Partially inhibited
<i>Enterococcus faecalis</i>	19433	30-35	Aerobic, 18-24 hours	inhibited

Storage 2 – 8 °C

Warning and Precautions - For laboratory use only. Do not use plates if they show evidence of microbial contamination, discoloration, drying, cracking, or other signs of deterioration. Do not use the product beyond its expiry date