

XLD-Agar nach harm. EP/USP/JP (XLD)

Complies with Harmonised European Pharmacopoeia

| | |
|----------------------------|----------------------------------|
| Shorthand symbol: | XLD |
| Item number: | 40-1170 |
| Format: | Petri Dish, 90mm |
| Colour: | Red |
| Storage conditions: | Dry, in closed bag, at 4 – 10°C. |
| Shelf-life: | 6 Months |
| pH: | 7.4 ± 0.2 at 25°C |



Intended use and fields of application

Xylose Lysine Desoxycholate Agar is a differential selective medium for the isolation and differentiation of Gram Negative enteric pathogens, especially Salmonella and Shigella, from foods, pharmaceutical and clinical samples. The medium is particularly well suited for the investigation, since other microorganisms are strongly inhibited from growth.

XLD allows for the differentiation of pathogens of non-pathogenic lactose-fermenting species as well as non-pathogenic microorganisms that ferment neither lactose nor sucrose. It is particularly suitable for the isolation of Shigella species, which often show no growth due to other toxic growth factors.

Typical composition in g/l

in g per 1 Litre Nutrient medium

| | |
|-----------------------------|------|
| Yeast Extract | 3 |
| L-Lysine | 5 |
| Xylose | 3.5 |
| Lactose monohydrate | 7.5 |
| Saccharose | 7.5 |
| Sodium deoxycholate | 2.5 |
| Sodium thiosulphate | 6.8 |
| Ammonium Iron (III)-citrate | 0.8 |
| Phenol Red | 0.08 |
| Sodium chloride | 5 |
| Agar | 13.5 |

*Adjusted as required to meet performance standards

Microbiological quality control

The Microbiological Performance Test is carried out in accordance with the requirements of Pharm. Eur. (Microbiological Examination of non-sterile products in accordance with Chapter 2.6.13).

Productivity

Incubation conditions: 18 hours at 30-35°C; Inoculum concentration: 10-100 CFU

| Organism | Type Strain | Specification | Colony morphology |
|--------------------------------|----------------------|---------------|--|
| Salmonella enterica ssp. Abony | NCTC 6017/WDCM 00029 | Good growth | Colonies with black centre and a lightly transparent reddish zone due to the colour change of the medium |

Selectivity

Incubation conditions: 18 hours at 30-35°C; Inoculum concentration: 10.000-1.000.000 CFU

| Organism | Type Strain | Specification | Colony morphology |
|-----------------------|-----------------------|---------------------|-------------------|
| Escherichia coli | ATCC 8739/WDCM 00012 | Complete inhibition | - |
| Enterococcus faecalis | ATCC 19433/WDCM 00009 | Complete inhibition | - |

Microbial Contamination

Incubation conditions: 5-7 days at 20-25°C and 5-7 days at 30-35°C

Specification

No microbial contamination