

# CLED (Cystine Lactose Electrolyte Deficient) Agar



Medium used for the cultivation and identification of urinary microorganisms.

## • CONTENTS (Liter)

Beef Extract	3.0 g
Peptone	4.0 g
Tryptone	4.0 g
L-Cystine	0.128 g
Lactose	10.0 g
Bromothymol Blue	0.02 g
Agar	15.0 g

Final pH = 7.3 ± 0.2 at 25°C

## • PROCEDURE

Suspend 36.15 G of powder in 1 L of distilled or deionized water. Heat to boiling until completely dissolved. Sterilize by autoclave at 121°C for 15 minutes. Cool to 45 - 50°C in water bath. Mix well. Pour into petri dishes.

## • INTERPRETATION

CLED (Cystine Lactose Electrolyte Deficient) Agar is a medium used for the cultivation and identification of urinary microorganisms. Beef extract, peptone and tryptone are the nitrogen, carbon and vitamin sources. L-cystine is added for growth of cystine dependent coliforms. Lactose is a fermentable carbohydrate. Bromothymol blue is a pH indicator. Agar is the solidifying agent.

## • TECHNIC

Inoculate the specimen using a sterile loop to the medium. Incubate at 36 ± 1°C for 18 - 24 hours. Refer appropriate references for recommended test procedure.

## • QUALITY CONTROL FOR USE

### Dehydrated medium

Appearance: free-flowing, homogeneous

Color: light beige with slight green tint

### Prepared medium

Appearance : slightly opalescent

Color: bluish-green

Incubation conditions: 36 ± 1°C / 18 - 24 hours

Microorganism	ATCC	Growth	Characteristics
<i>Enterococcus faecalis</i>	29212	good	small yellow colonies
<i>Escherichia coli</i>	25922	good	yellow colonies
<i>Proteus vulgaris</i>	13315	good, swarming inhibited	blue to blue green colonies
<i>Salmonella typhimurium</i>	14028	good	blue colonies
<i>Staphylococcus aureus</i>	25923	good	deep yellow colonies

**• STORE**

The powder is very hygroscopic. Store the powder at room temperature, in a dry environment, in its original container tightly closed and use it before the expiry date on the label. Store prepared medium at 2 - 8°C.

**• REFERENCES**

1. Sandys, G.H. (1960). J. Med. Lab. Technol., 17; 224.
2. Isenberg, H.D. (1992). Clinical microbiology procedures handbook. American Society of Microbiology, Washington, D.C.

**• PACKAGE**

Cat. No : MB-C1012 CLED (Cystine Lactose Electrolyte Deficient) Agar	500 G
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