

Product Name : CLED (Cystine Lactose Electrolyte Deficient) Andrade Agar

Medium for isolation, enumeration and differentiation of urinary microorganisms.

TYPICAL FORMULA (G/L)

Beef Extract 3.0
Peptone4.0
Tryptone 4.0
L-Cystine0.128
Lactose 10.0
Brom Thymol Blue0.02
Agar15.0
Andrade's indicator0.1
Final pH = 7.5 ± 0.2 at 25°C.

DIRECTIONS

Suspend 36.24 G of powder in 1 L of distilled or deionized water. Heat until completely dissolved. Sterilize in the autoclave at 115°C for 15 minutes. Dispense in petri dishes.

DESCRIPTION

CLED (Cystine Lactose Electrolyte Deficient) Andrade Agar is a non selective medium for isolation, enumeration and differentiation of urinary microorganisms. Addition of Andrade's indicator changes colonial appearance and aids in identification of microorganisms..

TECHNIQUE

Inoculate the medium with the specimen using a sterile loop and incubate at 36 ± 1°C for 18-24 hours.

QUALITY CONTROL

Dehydrated medium

Appearance: free-flowing, homogeneous.

Color: pink.

Prepared medium

Appearance: slightly opalescent.

Color: purple.

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

Microorganism	ATCC	Growth	Characteristics
<i>Escherichia coli</i>	25922	good	red colonies
<i>Staphylococcus aureus</i>	25923	good	pink colonies
<i>Proteus vulgaris</i>	8427	good	green-blue colonies

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PERFORMANCE AND LIMITATIONS

Andrade allows a more accurate detection of lactose fermenting bacteria from non fermenting ones. The more or less intense fermentation of the lactose causes a colour change in the medium towards different red tones. The unsuccessful fermentation of the lactose causes an alkalization of the medium with consequent colour change to green-blue.

STORAGE

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 or until signs of deterioration or contamination are evident. Store prepared medium at 2-6°C.

REFERENCES

1. Bevis, (1968) . J. Med. Technol. 25, 38-41 .
2. Furniss , Lu , Danovan (1978) P.H.L.S. Monograph series , London, H.M.S.O., 11.
3. NCCLS document M22-A2, 1996. Approved Standard.

PACKAGING

Cat. No : MB-C1112 CLED (Cystine Lactose Electrolyte Deficient) Andrade Agar	500 G
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