

CM 22238 -C.L.E.D. AGAR W/ ANDRADE INDICATOR (CYSTINE LACTOSE ELECTROLYTE DEFICIENT AGAR)

INTENDED USE

For isolation and differentiation of microorganisms based on lactose fermentation.

PRODUCT SUMMARY AND EXPLANATION

CLED Agar w/ Andrade Indicator is used for culturing of pathogens causing urinary infections. It is a variety of C.L.E.D medium, which was modified by Brevis by incorporation of Andrade indicator. Addition of Andrade indicator improves the differentiation of microorganisms by enhancing the appearance of the colony.

COMPOSITION

Ingredients	Gms / Ltr
Agar	15.000
Lactose	10.000
Peptone	4.000
Tryptone	4.000
Beef extract	3.000
L-Cystine	0.128
Andrade indicator	0.100
Bromothymol blue	0.020

PRINCIPLE

Beef extract, Peptone and Tryptone provide the nitrogen, vitamins and amino acids in CLED Agar. L-Cystine is added as a growth supplement for Cystine-dependent coliforms. Lactose acts as a fermentable sugar. Organisms capable of fermenting lactose will lower the pH and change the color of the medium. Bromothymol blue is used as a pH indicator and Agar is used as a solidifying agent. For better results, the medium should not be incubated for more than 24 hours because if lactose fermenters predominate, the entire medium may turn pink masking the presence of non-lactose fermenters.

INSTRUCTION FOR USE

1. C.L.E.D Agar is ready to use solid media in glass bottle. The medium is pre-sterilized, hence sterilization is not required.
2. Prior to use, medium in the bottle can be melted either by using a pre-heated water bath or any other method.
3. Slightly loosen the cap before melting.
4. Pour liquefied agar into each plate as desired and allow them to solidify at room temperature. Plates are now ready to inoculate or refrigerate for later use.

QUALITY CONTROL SPECIFICATIONS

Appearance	:	Greenish blue color, clear to slightly opalescent gel.
Quantity of Medium	:	100 ml of the medium in glass bottle
pH (at 25°C)	:	7.5± 0.2
Sterility Check	:	Passes release criteria



INTERPRETATION

Cultural characteristics observed after inoculation of 50-100 CFU, on incubation. Recovery rate is considered 100% for bacteria growth on Soya Agar.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Recovery	Color of colony	Incubation Temperature	Incubation Period
<i>Escherichia coli</i>	25922	50-100	Luxuriant	>=70%	Bright pink with pink halo	35±2 °C	18-24 Hours
<i>Staphylococcus aureus</i>	25923	50-100	Luxuriant	>=70%	Golden yellow	35±2 °C	18-24 Hours
<i>Proteus vulgaris</i>	29905	50-100	Luxuriant	>=70%	Blue green	35±2 °C	18-24 Hours
<i>Klebsiella aerogenes</i>	13048	50-100	Luxuriant	>=70%	Greyish green	35±2 °C	18-24 Hours

PACKAGING

100ml glass bottles.

STORAGE

On receipt, store bottles in the dark at 10 to 25° C. Avoid freezing and overheating. The medium may be used up to the expiration date and incubated for the recommended incubation times. Bottles from unopened packages can be used up to the expiration date. Opened bottles must be used immediately. To prepare plates or tubes from the bottled medium, it must first be liquefied. Do not liquefy any leftovers for a second time

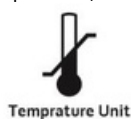
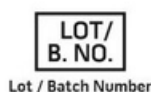
Product Deterioration: Do not use bottles if they show evidence of microbial contamination, discoloration, or any other signs of deterioration.

DISPOSAL

After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

REFERENCES

1. Bevis, T. D. J. Med. Lab. Technol, 26-38-41. 1968. Mackey, J. R. and Sandys, G.H. (1965).
2. Furniss A.L., Lee J.V. and Donovan T.J. P.H.L.S. Monograph series, London, H.M.S.O., 11. (1978).



NOTE: Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.

***ForLabUseOnly**

