OXALIS Diagnostics Pvt. Ltd.

Technical Data

CLED Agar with Bromothymol Blue Plate (90mm)

CLED Agar with Bromothymol Blue is recommended for isolation, enumeration and presumptive identification of urinary pathogens on the basis of lactose fermentation.

Product Presentation:

Cat No.	Product description	Pack Size
31010060060	CLED Agar with Bromothymol Blue Plates	60 Plates

Principle

L-Cystine lactose electrolyte deficient medium composed of peptone, tryptone, meat extract, lactose, L-Cystine and bromothymol blue. Literature suggests that the *Proteous* species can be controlled by restricting the electrolytes and by replacing the mannitol by lactose and sucrose with L-Cystine and bromothymol blue. Peptone, meat extract and tryptone serve as the source of all essential nutrients such as amino acids, vitamins, other trace factors. L-Cystine is added as a growth supplement for cystine-dependent coliforms. Lactose is included as a carbon source and plays a crucial role for selection of lactose fermenting microbes. Brom Thymol Blue is used as a pH indicator. Organisms capable of fermenting lactose will lower the pH of medium, result in change the color of the medium from green to yellow. Agar is used as a solidifying agent.

Composition

Ingredients	Grams / Litre
Meat Extract	3.00
Peptone	4.00
Tryptone	4.00
Lactose	10.0
L-Cystine	0.128
Bromothymol Blue	0.02
Agar	15.0

*Formula adjusted, standardized to suit performance parameters

Additional Material Required

Bacteriology Incubator.

Directions

- ✓ Open the sterile pack and remove CLED Agar with Bromothymol Blue Plate aseptically.
- ✓ Inoculate/streak the plate and Incubate in inverted position as per standard procedure.

Storage and Stability

- ✓ Store between 2°C-8°C to avoid water condensation. Condensation can be prevented by avoiding quick temperature shifts and mechanical stress.
- ✓ Under optimal conditions, the medium has a shelf life of 3 months. Use before expiry mentioned on the label.

FACTORY & OFFICE
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Quality Control

Appearance: Gel with smooth, even surface without any cracks, bubbles and drying or shrinking of media.
Colour and Clarity of Medium: Green to blue green coloured, clear to slightly opalescent gel forms in petridishes.
Quantity of Medium: 25 ± 2 g media in 90 mm petriplate.
pH at 25°C±2°C: 7.3±0.2

Growth Promotion Test: Cultural characteristics observed after an incubation of 18-48 hours at 35°C -37°C.

Cultural Response :

Organism	Type Culture	Growth	Colour of the Colony	Incubation Temperature	Incubation Period
Escherichia coli	ATCC 8739	Good	Yellow	35°C -37°C.	18-48 Hours
Staphylococcus aureus	ATCC 25923	Good	Yellow	35°C -37°C.	18-48 Hours
Salmonella Typhi	ATCC 14028	Good	Blue	35°C -37°C.	18-48 Hours

Disposal

Disposal of infectious material and material that comes in to contact with clinical sample must be decontaminated and dispose of by autoclaving or incineration or established laboratory procedures.
User must be ensure safe disposal of used or unusable preperation of the products.

Reference

- ✓ Mackey and Sandys, 1965, Br. Med. J., 2:1286.
- ✓ MacKey and Sandys, 1966, Br. Med. J., 1:1173.
- ✓ Dixson J. M. S. and Clark M. A., 1968, Conc. Med. Assoc. J., 99 (15)
- ✓ Benner E. J., 1970, Appl. Microbiol., 19(3), 409
- ✓ MacFaddin J. F., 1985, Media for Isolation-Cultivation-Identification-Maintenance of Medical Bacteria, Vol. I, Williams and Wilkins, Baltimore.

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