

m-LES ENDO AGAR MEDIUM

For the detection of coliform organisms



m-LES Endo Agar: *E.coli* colonies

Typical formula (g/l)

| | |
|--------------------------------|-------|
| Yeast Extract | 1.20 |
| Tryptone | 3.70 |
| Peptone | 3.70 |
| Tryptose | 7.50 |
| Lactose | 9.40 |
| Dipotassium Hydrogen Phosphate | 3.30 |
| Potassium Dihydrogen Phosphate | 1.00 |
| Sodium Chloride | 3.70 |
| Sodium Desoxycholate | 0.10 |
| Sodium Laurylsulphate | 0.05 |
| Sodium Sulphite | 1.60 |
| Basic Fuchsin | 0.80 |
| Agar | 15.00 |

Final pH 7.1 ± 0.2

Description

Les Endo Agar Medium, prepared according to the formulation described by McCarthy, DeLaney and Grasso, is recommended by APHA for the detection of the coliform organisms in water according to the MF technique. APHA describes two methods: the former uses enrichment with Lauryl Sulphate Broth, the latter uses a direct detection in Endo Agar LES.

Technique

Place an absorbent pad in a plate and pipette 1.8-2 ml of Lauryl Pepto Bios Broth. Lay the membrane filter through which the water specimen has been filtered on the pad and incubate for 1,5 - 2 hours at 35°C in a moist atmosphere. Transfer the membrane from the pad to a plate of LES Endo Agar Medium avoiding formation of air bubbles between medium and membrane. Incubate at 35°C for 20 to 22 hours. Count as coliform bacteria the red coloured colonies having the characteristic metallic halo.

Using the technique of primary isolation and direct enumeration, place the membrane filter directly on the surface of Les Endo Agar Medium plate and incubate at 35°C for 22-24 hours.

Storage

Store at 2-8° - When stored as directed the plates remain stable until the expiry date shown on the label. Do not use beyond stated expiry date.

References

- McCarthy, DeLaney and Grasso (1961) - Water and Sewage Works 108, 238.
- APHA (1985) Standard Methods - for the Examination of Water and Wastewater, 16th Ed.

Packaging**541593****m-Les Endo Agar,****20 ready to use plates (90 mm)**