


m-Endo LES agar

DEHYDRATED MEDIUM

Art. 84645.0500
Intended use

Medium for detecting and enumerating coliforms in water and food, by the membrane filter method.

Formula * - Composition in g/L

Peptone.....	15.000	Sodium laurylsulphate.....	0.050
Yeast extract.....	1.200	Sodium sulphite.....	1.600
Lactose.....	9.400	Basic Fuchsin.....	0.800
Sodium chloride.....	3.700	Agar.....	15.000
Dipotassium phosphate.....	3.300		
Potassium phosphate.....	1.000	Final pH 7.2 ±0.2 at 25 °C	
Sodium deoxycholate.....	0.100		

* Adjusted and /or supplemented as required to meet performance criteria

Instructions for preparation

Mix 51.2 g of powder with 20 ml of ethanol, stir until obtaining a paste. Add purified water up to 1 l and bring to the boil.
 DO NOT AUTOCLAVE. Mix and pour into Petri plates. Do not overheat.

Principle of the method and general information

Modification of classical culture medium, Endo Agar, which is obtained to better growth and a more intense metallic sheen coliforms.

Instruction for use

Membranes that have filtered the sample are incubated at 35°C +/- 2°C for 2-3 hours over a pad with Lauryl sulfate broth and then they are transferred to a plate with m-Endo LES agar. Incubate at 35°C +/- 2°C for 18-24 hours. Coliform colonies appear red with the characteristic metallic sheen.

Quality control
Incubation temperature: 35°C ±2,0

Incubation time: 18-24 h

Inoculum: Practical range 100±20 CFU. Min. 50 CFU (Productivity) / 104-106 CFU (Selectivity) according to ISO 11133:2014.

Microorganism

	Growth	Remarks
<i>Enterococcus faecalis</i> ATCC® 29212	Inhibited	Selectivity
<i>Escherichia coli</i> ATCC® 8739	Productivity > 0.50	Pink-red colonies w. green metallic shine
<i>Escherichia coli</i> ATCC® 11775	Productivity > 0.50	Pink-red colonies w. green metallic shine
<i>Escherichia coli</i> ATCC® 25922	Productivity > 0.50	Pink-red colonies w. green metallic shine
<i>Salmonella typhimurium</i> ATCC® 14028	Productivity > 0.50	Colourless colonies w/o green metallic shine

References

- ATLAS, R.M., L.C. PARKS (1993) Handbook of Microbiological Media. CRC Press Inc. London.
- CLESERI, L.S., A.E. GREENBERG & A.D. EATON (Editors) (1998) Standard Methods for the Examination of Water and Wastewater. 20th. Ed. APHA-AWWA-WEF, Washington DC.
- McCARTHY, J.A., J.E. DELANEY & R.J. GRASSO (1961) Measuring coliforms in water. Water Sewage Works. 108:238 -241
- GRABOW, W.O.K. & M. du Preez. (1979) Comparison of m-Endo LES, McConkey and Teepol media for membrane filtration counting of total coliform bacteria in water. Appl. Environ. Microbiol. 38:351-356.

Storage conditions

For laboratory use only. Keep tightly closed, away from bright light, in a cool dry place (+4 °C to 30 °C).

Ordering information

84645.0500 m-Endo LES agar Bulk of 500 g.

Note: For supplements see the section - Instructions for preparation.