

Endo Agar



Medium used for the isolation of gram-negative microorganisms.

*Equally use with MFDS (MB-E1020K) and QIA (MB-E1020Q).

• CONTENTS (Liter)

Peptone	10.0 g
Lactose	10.0 g
Dipotassium Phosphate	3.5 g
Sodium Sulfate	2.5 g
Basic Fuchsin	0.5 g
Agar	15.0 g
Final pH = 7.4 ± 0.2 at 25°C.	

• PROCEDURE

Suspend 41.5 G of powder in 1L of distilled or deionized water. Heat to boiling until completely dissolved. Sterilize by autoclave at 121°C for 15 minutes. Cool to 45-50°C in water bath. Mix well. Dispense in petri dishes.

• INTERPRETATION

Endo Agar is a medium used for the isolation of gram-negative microorganisms. Peptone provides carbon, nitrogen, vitamins and minerals. Lactose is the fermentable carbohydrate. Dipotassium phosphate is used as a buffering agent. Sodium sulfate and basic fuchsin has inhibitory effect on gram-positive microorganisms. Agar is the solidifying agent.

• TECHNIC

Inoculate the plates with spreading the specimen on surface of the medium using a sterile loop. Incubate at 36 ± 1°C for 24 ± 2 hours. Refer appropriate references for recommended test procedure.

• QUALITY CONTROL FOR USE

Dehydrated medium

Appearance: free-flowing, homogeneous.

Color: medium purple.

Prepared medium

Appearance : opalescent with precipitates. May contain a moderate amount of small dark red particles and a large amount of minute dark red particles.

Color: pink.

Incubation conditions: 36 ± 1 °C / 24 ± 2 hours

Microorganism	ATCC	Inoculum CFU	Growth	Characteristics
<i>Staphylococcus aureus</i>	25923	≥10 ³	inhibited	-
<i>Escherichia coli</i>	25922	50 -100	good	red colonies with green metallic sheen
<i>Salmonella typhimurium</i>	14028	50 – 100	good	colorless to pink colonies

• STORE

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 are evident. Store prepared medium at 2-8°C.

• REFERENCES

1. Endo, S. (1904). Uber ein Verfahrenzum Nachweis der Typhusbacillen. Centr. Bakt., Abt 1, Orig. 35:109-110.
2. American Public Health Association.(1975). Standard methods for the examination of water and wastewater, 14th ed.
3. Refer to the MFDS and the QIA.

• PACKAGE

Cat. No : MB-E1020 Endo Agar	500 G
---------------------------------	-------