

E.M.B. LEVINE AGAR W LACTOSE + SUCROSE

Selective medium for gram-negative enteric bacteria isolation.

TYPICAL FORMULA (q/I)

Peptone	10.0
Lactose	5.0
Sucrose	5.0
Potassium phosphate bibasic	2.0
Eosine Y	0.4
Methylene blue	0.066
Agar	15.0
$pH = 7.1 \pm 0.2$	

DESCRIPTION

E.M.B. LEVINE AGAR W LACTOSE + SUCROSE is a selective medium for isolation of enteric gram negative bacteria.

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The eosin dye inhibits growth of gram-postive bacteria and combines with the methylene blue indicator to produce a color change whenever lactose or sucrose are fermented. This medium does not allow discrimination between which carbohydrate is fermented. Yersinia enterocolitica, which ferments sucrose, but not lactose, will produce the same purple-black colony as lactose-fermenting bacteria.

PREPARATION

Suspend 38 g of powder in 1 litre of sterile distilled or deionized water. Heat until completely dissolved. Sterilize in autoclave at 121°C for 15 minutes. Dispense into petri dishes and allow to solidify.

TECHNIQUE

Inoculate the faecal sample or rectal swab onto a small area of a plate and streak for isolation. Incubate at 36+/-1°C for 18-24 hours and examine colonies with morphology associate to potential pathogens.

INTERPRETATION of RESULTS

Escherichia coli: Blue-black, dark centered colony with green, metallic sheen.

Salmonella species: Colorless or transparent, light-purple colonies.

Klebsiella species: Mucoid brownish colony with blue-black center.

Proteus species: Smooth, translucent, colorless colonies

For the defi nitive identifi cation of Enterobacteriaceae, additional biochemical test must be performed.

10 20°C away from lie

10-30°C away from light, until the expiry date on the label or until signs of deterioration or contamination are evident.

WARNING and PRECAUTIONS

The product is not classified as hazardous by current legislation. It is nevertheless recommended that the Safety Data Sheet be consulted on its correct use. The product is designed for *In vitro* diagnostic use and must be used only by properly trained operators.

DISPOSAL of WASTE

Disposal of waste must be carried out according to national and local regulations in force.

REFERENCES

- Levine, M.M., (1918). Differentiation of E. coli and B. aerogenes on a simplified Eosin-Methylene Blue Agar. J. Infect. Dis. 23:43.
- Holt-Harris, J.E., and O. Teague. (1916). A new culture medium for isolation of Bacikllus typhosa from stools. J. Infect. Dis. 18: 596-600.





PRODUCT SPECIFICATIONS

NAME

E.M.B. LEVINE AGAR W LACTOSE + SUCROSE

PRESENTATION

Dehydrated medium.

STORAGE

10-30°C

PACKAGING

Code	Content	Packaging			
610140	500 g	500 g of powder in plastic bottle			
620140	100 g	100 g of powder in plastic bottle			

pH OF THE MEDIUM

7,1 +/- 0,2

USE

E.M.B. LEVINE AGAR W LACTOSE + SUCROSE is a selective medium for isolation of enteric gram negative bacteria.

TECHNIQUE

Refer to technical sheet of the product.

APPEARANCE of the MEDIUM

Homogeneous, reddish-pink dehydrated medium. Slightly opalescent, wine-red prepared medium.

SHELFLIFE

4 years.

QUALITY CONTROL

- 1. Control of general characteristics, label and print
- 2. Microbiological control

Inoculum for productivity: 10-100 UFC/ml Inoculum for specificity: \leq 10⁴ UFC/ml Incubation conditions:18-24 h at 36 \pm 1°C

Microorganism	ATCC	Growth	Characteristics	
Enterococcus faecalis	19433	Partial inhibition	Colorless colonies	
Escherichia coli 25922 Go		Good	Blue /black colonies with black centres and metallic sheen	
Salmonella typhimurium	14028	Good	Colorless colonies	

TABLE OF SYMBOLS								
IVD In Vitro Diagnostic Medical Device	② Do not reuse	Manufacturer Contains sufficient for <n> tests</n>	Temperature limitation					
REF Catalogue number	Fragile, handle with care	Use by Caution, consult accompanying documents	LOT Batch code					



