

# BTB Lactose Agar

Medium used for the detection and isolation of pathogenic *Staphylococci*.

## • CONTENTS (Liter)

Proteose Peptone	5.0 g
Beef Extract	3.0 g
Lactose	10.0 g
Bromothymol Blue	0.17 g
Agar	15.0 g
Final pH = 8.6 ± 0.2 at 25°C.	

## • PROCEDURE

Suspend 33.17 G of powder in 1 L 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

BTB Lactose Agar is a medium used for the detection and isolation of pathogenic *Staphylococci*. Proteose peptone and beef extract provide nitrogen, vitamins and nutrients. Lactose is the carbohydrate. Bromothymol blue is pH indicator. Agar is the solidifying agent.

## • TECHNIC

Inoculate the plates with spreading the specimen on surface of the medium using a sterile loop. Incubate at 35 ± 2°C for 24 - 48 hours. Refer appropriate references for recommended test procedure.

## • QUALITY CONTROL FOR USE

### Dehydrated medium

Appearance: free-flowing, homogeneous.

Color: greenish yellow.

### Prepared medium

Appearance: very slightly opalescent.

Color: greenish blue.

Incubation conditions: 35 ± 2°C / 24 - 48 hours

Microorganism	ATCC	Inoculum CFU	Growth	Characteristics
<i>Escherichia coli</i>	25922	50-100	good	yellow colonies
<i>Staphylococcus aureus</i>	25923	50-100	good	golden yellow colonies
<i>Salmonella typhimurium</i>	14028	50-100	good	blue / colorless colonies
<i>Staphylococcus epidermidis</i>	12228	50-100	good	blue / colorless 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 or contamination are evident. Store prepared medium at 2-8°C.

## • REFERENCES

1. Chapman, Lieb, Bereus, Cucio, J. Bact., 33, 533 (1937)
2. Carney D. N., Fossieck B. E., Parker R. H. et al, 1982, Rev. Infect. Dis. H., 1-12.
3. Atlas R. M., 2004, Handbook of Microbiological Media, 3rd Edition, CRC Press.

## • PACKAGE

Cat. No : MB-B0659 BTB Lactose Agar	500 G
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