

Product Name : Purple Lactose Agar

Medium for the differentiation of lactose fermenting from lactose non-fermenting microorganisms.

TYPICAL FORMULA (G/L)

Peptone 5.0
Beef Extract 3.0
Lactose10.0
Brom Cresol Purple0.025
Agar15.0
Final pH = 6.8 ± 0.1 at 25°C.

DIRECTIONS

Suspend 33.02 G of powder in 1 L of distilled or deionized water. Heat to boiling until completely dissolved. Sterilize in autoclave at 121°C for 15 minutes. Cool to 45-50°C. Dispense in petri dishes.

DESCRIPTION

Purple Lactose Agar is a medium for isolation and differentiation of lactose fermenting bacteria from lactose non fermenting bacteria.

TECHNIQUE

Spread with a sterile spatulum the material to examine on the surface of the solidified medium. Incubate at 36 ± 1°C for 18-48 hours. The lactose fermenting bacteria grow with yellow colonies and colour change of the medium to yellow; the lactose non fermenting bacteria grow with blue colonies. If inoculum is carried out in medium in slanted position, it is possible to put in evidence the presence of gas, produced during the carbohydrate fermentation, with the presence of bubbles in the middle of the medium.

QUALITY CONTROL

Dehydrated medium

Appearance: free-flowing, homogeneous.

Color: light beige.

Prepared medium

Appearance: clear to very slightly opalescent.

Color: purple.

Incubation conditions: 36 ± 1°C / 18-48 hours.

Microorganism	ATCC	Growth	Characteristics
<i>Escherichia coli</i>	25922	good	yellow/gas
<i>Enterobacter aerogenes</i>	13048	good	yellow/gas
<i>Staphylococcus aureus</i>	25923	good	yellow
<i>Salmonella typhi</i>	19430	good	

Product Name : Purple Lactose Agar

PERFORMANCE AND LIMITATIONS

Since the nutritional requirements of organisms are different, some strains may be encountered that fail to grow or grow poorly on this medium. The medium is slightly acid and positive reactions may be slower than with phenol red carbohydrate medium.

STORAGE

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 2-6°C.

REFERENCES

1. Bacteriological Analytical Manual, 8th ed. (1995). AOAC International, Gaithersburg, MD..
2. MacFaddin, J.D. (1985). Media for isolation-cultivation-identification maintenance of medical bacteria, vol. 1.

PACKAGING

Cat. No : MB-P1044 Purple Lactose Agar	500 G
---	-------