

Drigalski Lactose Agar



Medium used for the isolation and identification of Enterobacteriaceae on the basis of lactose fermentation.

• CONTENTS (Liter)

Peptone	15.0 g
Beef Extract	3.0 g
Yeast Extract	3.0 g
Sodium Desoxycholate	1.0 g
Sodium Thiosulfate	1.0 g
Lactose	15.0 g
Crystal Violet	0.005 g
Bromothymol Blue	0.08 g
Agar	15.0 g
Final pH = 7.4 ± 0.2 at 25°C	

• PROCEDURE

Suspend 53.09 G of powder in 1 L of distilled or deionized water. Heat to boiling until completely dissolved. Sterilize by autoclave at 115°C for 20 minutes. Cool to 45 - 50°C in water bath. Mix well. Pour into petri dishes.

• INTERPRETATION

Drigalski Lactose Agar is a medium used for the isolation and identification of Enterobacteriaceae on the basis of lactose fermentation. Peptone, beef extract and yeast extract are the nitrogen and vitamin sources. Sodium desoxycholate, sodium thiosulfate and crystal violet inhibit the growth of Gram-positive bacteria. Lactose is the fermentable carbohydrate. Bromothymol blue is the pH indicator. Agar is the solidifying agent.

• TECHNIC

Inoculate the specimen using a sterile loop to the medium. Incubate at 35 ± 2°C for 18 - 24 hours. Refer appropriate references for recommended test procedure.

• QUALITY CONTROL FOR USE

Dehydrated medium

Appearance: free-flowing, homogeneous

Color: beige

Prepared medium

Appearance : slightly opalescent

Color: green

Incubation conditions: 35 ± 2°C / 18 - 24 hours

Microorganism	ATCC	Growth	Characteristics
<i>Escherichia coli</i>	25922	good	yellow colonies with yellow medium
<i>Salmonella typhimurium</i>	14028	good	blue-green colonies with blue medium
<i>Enterococcus faecalis</i>	29212	inhibited	-
<i>Staphylococcus aureus</i>	25923	inhibited	-

• 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. Store prepared medium at 2 - 8°C.

• REFERENCES

1. MacFadding, J.F. 1985. Media for isolation-cultivation-identification maintenance of medical bacteria, vol. 1. Williams & Wilkins, Baltimore, MD.

• PACKAGE

Cat. No : MB-D1016 Drigalski Lactose Agar	500 G
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