

# Desoxycholate Agar



Medium used for the isolation and identification of coliforms.

## • CONTENTS (Liter)

Peptone	10.0 g
Lactose	10.0 g
Sodium Desoxycholate	1.0 g
Sodium Chloride	5.0 g
Dipotassium Phosphate	2.0 g
Ferric Ammonium Citrate	1.0 g
Trisodium Citrate	1.0 g
Neutral Red	0.03 g
Agar	15.0 g
Final pH = 7.3 ± 0.2 at 25°C	

## • PROCEDURE

Suspend 45.03 G of powder in 1 L of distilled or deionized water. Heat to boiling until completely dissolved. DO NOT AUTOCLAVE. Cool to 45 - 50°C in water bath. Mix well. Pour into petri dishes.

## • INTERPRETATION

Desoxycholate Agar is a medium used for the isolation and identification of coliforms. Peptone is the nitrogen and vitamin sources. Lactose is the fermentable carbohydrate. Sodium desoxycholate, ferric ammonium citrate and trisodium citrate inhibit the growth of the Gram-positive microorganisms. Sodium chloride maintains the osmotic balance. Dipotassium phosphate is the buffering agent. Neutral red is a 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: pinkish beige

### Prepared medium

Appearance : slightly opalescent

Color: pinkish orange

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

Microorganism	ATCC	Inoculum CFU	Growth	Characteristics
<i>Escherichia coli</i>	25922	50-100	good	pink colonies with bile precipitates
<i>Salmonella typhimurium</i>	14028	50-100	good	colorless colonies
<i>Enterococcus faecalis</i>	29212	≥10 <sup>3</sup>	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. Leifson, E. (1935). J. Pathol. Bacteriol. 40; 581-599.
2. APHA (1998). Standard methods for the examination of water and wastewater. 20th Ed.

**• PACKAGE**

Cat. No : MB-D1414 Desoxycholate Agar	500 G
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