

DESOXYCHOLATE LACTOSE AGAR

For the enumeration of coliforms from water, wastewater, milk and dairy products.

TYPICAL FORMULA (G/L)

Peptocomplex	10.000
Lactose	10.000
Sodium Chloride	5.000
Sodium Citrate	2.000
Sodium Desoxycholate	0.500
Neutral Red	0.033
Agar	15.000

DIRECTIONS

Suspend 42.5 g in 1000 ml of cold distilled water. Gently heat and bring to boiling with frequent agitation and boil for 1 minute to completely dissolve the powder. Avoid overheating and do not autoclave. Cool to 45-50°C and pour into sterile Petri dishes.

Final pH 7.1 +/- 0.2

DESCRIPTION

Desoxycholate Lactose Agar is a differential medium used for the enumeration of coliforms from water, wastewater, milk and dairy products. or other contaminated material.

In this medium the growth of Gram-positive bacteria is inhibited, and coliforms grow, forming red colonies with peripheral precipitation zones.

TECHNIQUE

For the enumeration of coliforms, inoculate the material under examination in a suitable dilution, carefully distributing it onto the surface of the medium; then cover with a thin layer of medium to obtain well isolated colonies in the agar. The colonies are observed and counted after 24 hours of incubation. Desoxycholate Lactose Agar can also be used as a non-selective medium for Gram-negative bacteria, as a primary inoculation medium. If using very contaminated material, inoculate lightly.

QUALITY CONTROL (37°C-24 H)

Productivity control

E.coli ATCC 25922: growth, red colonies

Selectivity control

S.aureus ATCC 25923: inhibited

Storage

Dehydrated medium: 15-30 °C

User prepared plates: 7 days at 2-8 °C

PACKAGING

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Desoxycholate Lactose Agar,

500 g (11.7 l)