



YT Agar

M1369

YT Agar is recommended for growth of *Escherichia coli* K12 strains used in preparation of phage and plasmid DNA according to Miller.

Composition**

Ingredients	Gms / Litre
Casein enzymic hydrolysate	8.000
Yeast extract	5.000
Sodium chloride	5.000
Agar	10.000

**Formula adjusted, standardized to suit performance parameters

Directions

Suspend 28.00 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Principle And Interpretation

YT Agar is used for the growth of *Escherichia coli* K12 strain used in preparation of phage and plasmid DNA according to Miller (1).

Casein enzymic hydrolysate and yeast extract provides sources of nitrogen and growth factors which allow the bacteria to recover from the stress of transformation and grow well. Sodium chloride provide essential ion.

Quality Control

Appearance

Cream to yellow homogeneous free flowing powder

Gelling

Firm, comparable with 1.0% Agar gel.

Colour and Clarity of prepared medium

Light amber coloured clear to slightly opalescent gel forms in Petri plates.

Cultural Response

M1369: Cultural characteristics observed after an incubation at 35-37°C for 18-24 hours.

Organism	Inoculum (CFU)	Growth	Recovery
Cultural Response			
<i>Bacillus subtilis</i> ATCC 6633	50-100	luxuriant	>=70%
<i>Enterobacter aerogenes</i> ATCC 13048	50-100	luxuriant	>=70%
<i>Escherichia coli</i> ATCC 25922	50-100	luxuriant	>=70%
<i>Enterococcus faecalis</i> ATCC 29212	50-100	luxuriant	>=70%
<i>Lactobacillus casei</i> ATCC 9595	50-100	luxuriant	>=70%
<i>Pseudomonas aeruginosa</i> ATCC 27853	50-100	luxuriant	>=70%
<i>Staphylococcus aureus</i> ATCC 25923	50-100	luxuriant	>=70%

Storage and Shelf Life

Store below 30°C in tightly closed container and use freshly prepared medium. Use before expiry date on the label.

Reference

1. H. Miller Meth Enzymol; 152 ,145, (1987).

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Disclaimer :

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