

TECHNICAL DATA SHEET

Article No. 7581

2x YT Agar

SYNONYMS

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SPECIFICATION

Solid culture medium used for the cultivation of recombinant *E. coli* and for maintenance and production of M13 phage and other single-stranded filamentous bacteriophages.

FORMULA* IN G/L

Tryptone	16.0
Yeast extract	10.0
Sodium chloride	5.0
Agar	15.0

Final pH 7.0 ±0.2 at 25 °C

*Adjusted and/or supplemented as required to meet performance criteria.

DIRECTIONS

Suspend 46 g of powder in 1 l of distilled water and heat to boiling. Distribute into suitable containers and sterilise by autoclaving for 15 minutes at 121 °C. Store at about 4 °C once prepared.

DESCRIPTION

Originally this medium was formulated as a growth medium for recombinant strains of *Escherichia coli*, but it is also used for the propagation of the bacteriophage M13 and similar bacteriophages since it allows the production of large quantities of phages without depleting the medium for the host.

TECHNIQUE

Solid medium that allows the cultivation of recombinant *E. coli* strains and growth of phage-infected host cells, grown overnight at optimum temperature.

QUALITY CONTROL

- Incubation temperature: 35 ±2.0 °C
- Incubation time: 24 ±3 h
- Inoculum: Practical range 100±20 CFU. Min. 50 CFU (productivity)

Microorganism	Growth	Remarks
<i>Escherichia coli</i> ATCC® 23724	Productivity > 0.70	-
<i>Escherichia coli</i> ATCC® 25922	Productivity > 0.70	-
<i>Escherichia coli</i> ATCC® 8739	Productivity > 0.70	-
<i>Escherichia coli</i> ATCC® 11775	Productivity > 0.70	-

REFERENCES

- AUSUBEL, F. M. et al. (eds) 1994. Current Protocols in Molecular Biology. Vol 1. Current Protocols, N.Y. USA.
- DAVIS, L.G., M.D. DIBNER & J.F. BATTEY (1986) Basic Methods in Molecular Biology. Elsevier. N.Y. USA.
- SAMBROOK, J., E.F. FRISCH & T. MANIATIS. (1989) Molecular Cloning: a laboratory manual. 2nd Ed. Cold Spring Harbor Laboratory. Cold Spring Harbor. N.Y. USA.

STORAGE

Keep tightly closed, away from light, in a dry place (4-30 °C).

SHELF LIFE

Keep tightly closed, away from light, in a dry place (4-30 °C).

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