

Technical Data Sheet

YT Medium (2X) powder

for molecular biology

Order number: 1327

The nutrient-rich YT medium (Yeast Extract Tryptone) is a standard medium for the cultivation of recombinant E. coli strains, as well as the propagation of M13 bacteriophages^{1,2}. The high nitrogen and vitamin content of the medium allows high phage reproduction while protecting the host cells. The salt content of the medium provides optimal osmotic conditions for bacterial growth and is low enough to allow the use of salt-sensitive antibiotics. The double-concentrated 2X YT Growth Medium is an optimal formulation for the growth and maintenance of M13 phage or other filamentous DNA bacteriophages. It permits larger quantity of phage production without exhausting the host.

Composition

Yeast Extract	10 g/l
NaCl	5 g/l
Tryptone	16 g/l

Store at ambient temperature and keep product dry.

Preparation

Dissolve 31 g of the powder mixture in one litre (final volume) of distilled water. The pH of the medium is 6.8 to 7.2 at 25°C. Sterilise the medium in an autoclave (20 minutes at 121°C). After cooling, heat-sensitive additives, such as antibiotics, can be added.

Related products

1110	Agarose Basic for molecular biology
1531	DNA Marker 1 kb (lyophilized) for molecular biology
1254	Ethidium bromide - Solution 0.07 % dropping bottle for electrophoresis
1321	LB Agar powder according to Miller for molecular biology
1317	LB Agar powder according to Lennox for molecular biology
1311	LB Medium powder according to Miller for molecular biology

¹Sambrook J., Fritsch E.F. & Maniatis T. (1989). Molecular Cloning: A Laboratory Manual, 2nd Edition. Cold Spring Harbor Laboratory Press, Cold Spring Harbor, New York.

²Ausubel F. M., R. Brent, R. E. Kingston, D. D. Moore, J. G. Seidman, J. A. Smith, and K. Struhl. 1994. Current protocols in molecular biology, Vol. 1. Current Protocols, New York, N.Y.

