

TB-Medium – Powder (Terrific Broth)

Powder for preparation of liquid TB-Medium

Product No. A0974

Description

Composition: Tryptone (A1553) 12 g/L
Yeast extract (A1552) 24 g/L

Storage: Room temperature

Comment

The final TB-Medium requires additional supplements:

1. Glycerol (4 ml/L)
2. Phosphate Buffer Solution (pH ~ 7,4), 10X, sterile (100 ml/L)

To prepare one liter of TB-Medium, 36 g of TB-Medium - powder are dissolved.

Procedure

Dissolve 36 g powder in 900 ml of water, then add 4 ml of glycerol (e.g. A1123) per liter and autoclave. Before inoculating bacteria, add 100 ml of sterile 10X TB-Phosphate solution and an antibiotic, depending on the plasmid transformed. Caution: antibiotics and nutritional supplements should be added only after the solution has cooled to 50°C or below, since these components often are heat-sensitive.

Preparation of a 10X Phosphate Buffer Solution:

For a 10X Phosphate Buffer Solution dissolve 23,1 g potassium di-hydrogen phosphate (e.g. A3095) and 125,4 g di-potassium hydrogen phosphate (e.g. A1042) in 1 L water and sterilize the solution. Caution: To avoid insoluble phosphates (calcium and magnesium) to form and to precipitate you need to autoclave the phosphates separately!

Literature

- (1) Sambrook, J., Fritsch, E.F. & Maniatis, T. (1989) *Molecular Cloning: A Laboratory Manual*, 2nd Edition. Cold Spring Harbor Laboratory Press, Cold Spring Harbor, New York.
- (2) Ausubel, F.A., Brent, R., Kingston, R.E., Moore, D.D., Seidman, J.G., Smith, J.A. & Struhl, K. (eds.) (1995) *Current Protocols in Molecular Biology*. Greene Publishing & Wiley-Interscience, New York.