

Technical Data Sheet

LB Medium powder according to Miller

for molecular biology

Order number: 1311

LB powder mixture (Lysogeny broth¹, often also called Luria-Bertani medium) for the preparation of a liquid microbiological culture medium according to Miller². The medium contains peptides, amino acids, water-soluble vitamins, trace elements and minerals. The high-salt formulation of Miller is the most widely used medium for the cultivation of (recombinant) E. coli strains and the standard medium for E. coli-based molecular biology work, such as the propagation and selection of plasmids and the expression of recombinant proteins.

Composition

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

Store at ambient temperature and keep product dry.

Preparation

Dissolve 25 g of the powder mixture in one litre (final volume) of distilled water. The pH value of the 2.5% solution is 7.3 to 7.7 at 25°C. An adjustment of the pH value is not necessary for common applications. The medium is sterilized in an autoclave at 121°C for 20 minutes. 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
1308	LB Medium powder according to Lennox for molecular biology

¹Bertani, G. (1951). Studies on lysogenesis. I. The mode of phage liberation by lysogenic Escherichia coli. J. Bacteriol. 62:293-300.

²Miller, J. H. (1972). Experiments in molecular genetics. Cold Spring Harbor Laboratory, Cold Spring Harbor, New York.

