Technical Data Sheet

LB Agar powder according to Miller

for molecular biology

Order number: 1321

LB powder mixture (Lysogeny broth[1], often also called Luria-Bertani medium) for the preparation of a solid microbiological culture medium according to Miller[2]. 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
Agar	15 g/l

Store at ambient temperature and keep product dry.

Preparation

Add 40 g of the powder mixture to a final volume of one litre of distilled water. The powder is not completely soluble in water at room temperature, but the agar component (which is responsible for the insoluble residue) dissolves during autoclaving. The medium is sterilized in the autoclave at 121 °C for 20 minutes. When the agar has cooled to approx. 50°C, antibiotics can be added. The warm liquid agar is poured into petri dishes (approx. 10 ml/plate) and allowed to cool down.

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
1311	LB Medium powder according to Miller for molecular biology
1317	LB Agar powder according to Lennox for molecular biology

[1]Bertani, G. (1951). Studies on lysogenesis. I. The mode of phage liberation by lysogenic Escherichia coli. J. Bacteriol. 62:293-300.
[2]Miller, J. H. (1972). Experiments in molecular genetics. Cold Spring Harbor Laboratory, Cold Spring Harbor, New York.

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