

Technical Data Sheet

LB Agar powder according to Lennox

for molecular biology

Order number: 1317

LB powder mixture (Lysogeny broth¹, often also called Luria-Bertani medium) for the preparation of a solid microbiological culture medium according to Lennox². The medium contains peptides, amino acids, water-soluble vitamins, trace elements and minerals, and is the most widely used medium for the cultivation of (recombinant) E. coli strains. The low-salt formulation of Lennox is advantageous for work that requires the use of salt-sensitive antibiotics. LB medium is 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	5 g/l
Tryptone	10 g/l
Agar	15 g/l

Store at ambient temperature and keep product dry.

Preparation

Add 35 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
1308	LB Medium powder according to Lennox for molecular biology
1321	LB Agar powder according to Miller for molecular biology

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

²Lennox, E. S. (1955). Transduction of linked genetic characters of the host by bacteriophage P1. Virology. 1:190-206.

